EPFL

Crafting an effective CV



"Hybrid Version,"
March 21, 2023," by Stephen Fischer,
Career Counselor & Staff Trainer

EPFL Career Center in collaboration with



FORUM EPFL - Who are we?



The biggest recruitment fair in Europe

- 200 compagnies
- 120 startups
- 8 NGO's and IGO's
- 2400 registered students

Take advantage of events organised throughout the year to help you prepare for your professional career!

Skills Week 1:

- 31 March Professional CV pictures
- 3-6 April CV Correction in person and/or on zoom

Key dates :

- 2 6 October Skills Week 2
- 9 13 October Forum Swisstech Convention Center

REGISTER NOW!





"Young

professional,"

in transition!

Managing expectations

- While we have consciously continued to add content to this seminar, we do not have time to go into depth on each aspect of creating an effective CV, linked to your other job search tools...
- My goal is not to give you all the answers related to your job search, but to help you formulate better questions!

NB: our slides are "text-rich" on purpose so you can use them & the handouts for reference.

Crafting an effective CV_Forum Skills Week_Spring 2023

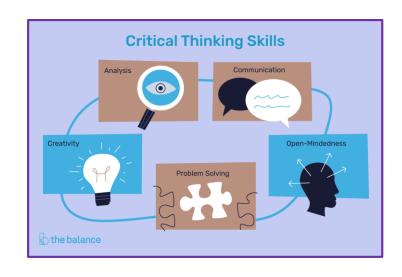
Today's objectives

We need your help in making this "online experience" valuable, so please be fully engaged during the session and take a few minutes to give feedback at the end, or by email afterwards.

Our goal is to help you develop critical thinking about your application documents, and in particular your CV.

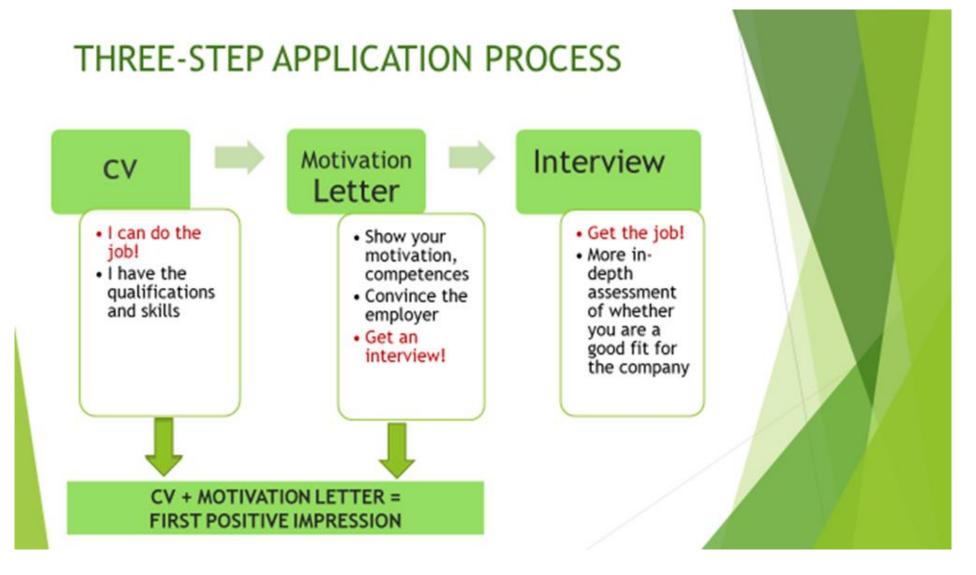
Based on a cumulative experience of 20+ years, we'll show you "best practice" approaches.

- Pundits frequently disagree
- Literature almost exclusively written by recruiters, not candidates
- Job markets and recruitment techniques continue to grow more complex



Google search for "effective CV for engineers:" 13.4 million results (0.41 sec's); if you take 60 sec's to consult each = only **25.48 years...**





Courtesy of: Rosemarie Andrey, Business Communication Expert (used by permission)

"Typical" application documents

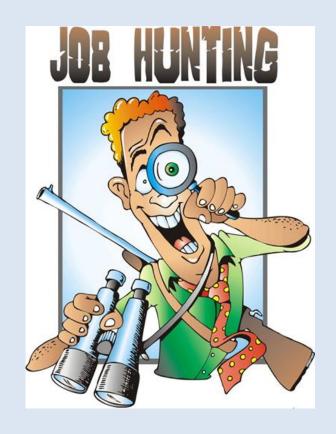
- Curriculum Vitæ, with photo
- Letter of motivation (not "cover letter")
- Copy of latest degree (or letter announcing award); not transcripts, unless specifically requested!
- Work or internship certificate(s)
- Property One reference letter, preferably from industry

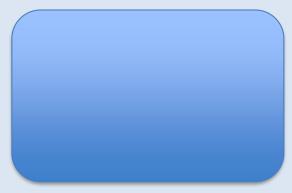
Today, **83%** of recruiters in Switzerland, and 94% in the USA, will immediately consult your Linkedln profile if they are interested in your CV. Also true for networking; don't miss our separate conferences on Linkedln...

Anything else can be sent later: it's a good thing when the HR *needs* more...

NB: job site reference codes must be on titles of all docs when mentioned (i.e. ads on JobUp).

Use this format: Fischer_S. CV_Rèf. 347a/x





Recruitment practices: expectations

CV answers the first one, and hints at the rest



- If you can do the job
- If you will do the job
- If you have the potential to do more
- If you are likely to integrate well with the team

For this, they will focus on

- Your knowledge (technical expertise, key skills)
- Your savoir-faire (experience, workstyle and work ethic)
- Your self-knowledge (personality and character)
- Your motivation for the post and for the company

Some expectations may not be stated, as they do not relate to the candidate's capacity, but may still disqualify him/her (age, gender, civil status, nationality, etc.).

According to each person's role (recruiter, future colleague, manager), and on the company culture, the relative importance of each can vary widely.



Remember: this is a two-way process, and you are exploring a mutually satisfying relationship.

Recruitment practices: the standard process

The recruitment process includes several steps:

- Sending your application packet
- If seen as positive, your profile on LinkedIn is checked, too
- Online questionnaire and/or submitting an essay
- Pre-screening by telephone or Skype
- Interviews (first with generalist, following with higher level personnel and/or panel)
- Psychometric tests (intelligence, personality, behavioral preferences)
- Assessment center or selected exercises (case study, roleplays, public presentations, etc.)

Employers want to limit the risk of making a bad selection, which is extremely costly. In an estimated 60% of cases, an interview is supplemented by an additional form of evaluation (*Lee Hecht Harrison*, 2013).



Our focus today is on the key tool in your application kit: an effective CV for industry!



Real costs of bad hires...



Top 5 Negative Effects

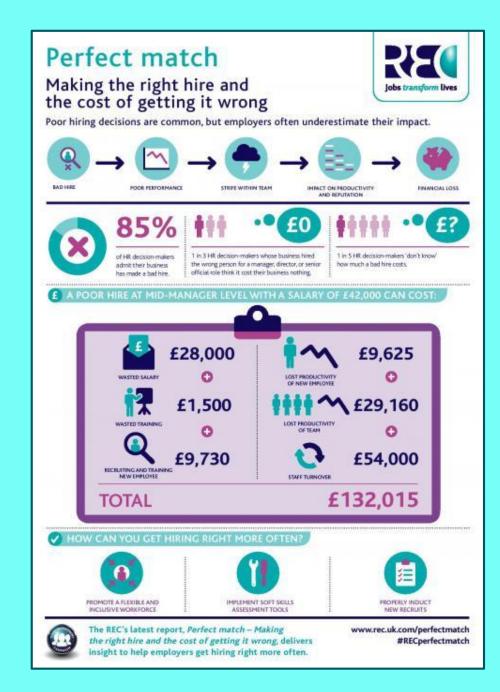
Lower productivity - 39%

Lost time finding and training a replacement - 39%

Cost of finding and training a replacement - 35%

Negative employee morale - 33%

Negative impact on clients - 19%



ROI is not just a king in France...



While recruiters often muddy the water, the fact is, you are not in the same category as other new hires...nor should you be! So both "sides" in the recruitment tango need to be confident, aware of all the factors important to hiring, and also fair (ahem). Candidates have to make most of the effort in the beginning to communicate their value and their interest in the job.

https://www.ere.net/the-business-case-for-hiring-college-grads-reasons-they-can-produce-a-high-roi/

The Business Case for Hiring College Grads — 32 Reasons They Can Produce a High ROI

E ere.net/fine-business-case-for-hiring-college-grads-reasons-they-can-produce-a-high-roi

By Dr. John Sullivan December 12, 2011

December 12, 2011

College hiring is about to ramp up again — and the very best college recruiting organizations would argue

it ramped up several months back — so now is an opportune time to conduct an ROI analysis to determine when and where you should hire college grads instead of experienced hires. Understanding the unique competencies and skills that college students bring to a business is important not just in determining the number needed, but where to place them.

As a college professor and someone that advises firms on the design of coll recruiting programs, I have come up with a long list of the advantages of graduates.

If you're not seeing these attributes in your recent college hires, into courting, the problem is most likely a result of major weaknesses in process and not with "this latest generation" of college students. Your CV needs to "sell" your value...which we know is substantial!

The Business Benefits of Hiring Recent College Gr

The benefits are split into two categories 1) benefits to individual hiring manbenefits that may accrue to the entire firm over time. Note that the possible outcolisted here are based partially on generalizations that cover many but not all top <u>college</u> hires.

Shorter-term Benefits of Hiring College Students

- Lower salary costs most are willing to work for significantly less salary than "experienced hires."
- Continuous learners because they have a recent history of learning, they are self-motivated "continuous learners." This may actually be the most important competency.
- 3. Comfortable with technology New grads expect to use technology and have no fear of it. They learn new technologies rapidly, and this, combined with their extensive knowledge of the latest hardware and software, automatically makes them a high-value hire both for current and future needs.
- 4. Comfortable with the Internet and social media college students are much
 Crafting an effective CV_Forum Skills Week_Spring 2028 by to be familiar with and skilled in all aspects of the Internet, and in
 particular the emerging area of social media and mobile applications.
 - High levels of innovation there is a great deal of academic research indicating.





This is written specifically for CTOs. Engineering managers and engineers will also find this useful.

Engineer return on investment (ROI)

If an engineer's salary is 150k USD 5, their fully loaded cost is 1.5x 5, approximately 225,000 USD. This engineer's return on investment should be at least 3x 5, meaning 675,000 USD annually.

We will use this engineer's fully loaded cost as the basis for the rest of our calculations. Drag \leftrightarrows the blue numbers to make adjustments. Your changes do not leave your computer.

For reference, Google makes ~\$1,200,000 USD in revenue per employee.*

How much is an engineer's time worth?

- 1 hour is worth \$117.18 USD.
- 8 hours are worth \$937.50 USD.
- 5 work days are worth \$4,687.50 USD.
- 3 months are worth \$56,250 USD.
- 1 year (48 weeks) are worth \$225,000 USD.

* via
Business
Insider /
Company
Filings



CV as Business Communication Tool

Your CV must show your ability to be concise and to **emphasize** what matters.

Your readers are industry experts: express yourself like a professional, not a student:

- Describe "skills" rather than "relevant courses" or "interests"
- Detail "results" rather than "tasks"
- Mention constraints met (time, budget, quality)
- Avoid too many mentions of Academia

Be concrete. Vagueness is your enemy.

Most recruiters are not technical or research specialists. Don't expect them to intuit what you haven't put in writing.



CV in dangerland: facts and figures



1/3 recruiters spend **60 seconds or less** on a CV before deciding what to do with it.

55% prefer CVs structured in *reverse* chronologic order.

Functional CV's are less appreciated.

Three main reasons to reject a CV:

Not enough relevant experience (27%)

Insufficient qualifications (22%)

Poor presentation (12%)

Valid reasonesents

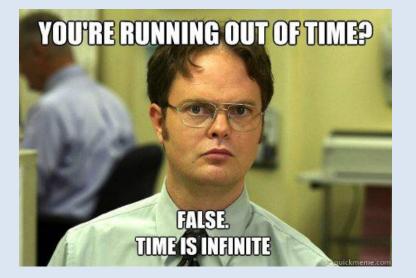
Source: Chiumento CV Survey, 2006

Your CV should demonstrate your ability to contribute and to get things done.

Every item that makes the recruiter want to meet you is welcome.

Anything that could reduce his/her eagerness should be avoided.

Form, style and "read-ability" (meaning, "do I want to read this thing or not?") matter as much as content.



One size does not fit all



"At <u>graduate-jobs.com</u> we surveyed recruiters from some of the biggest companies, including PwC, NHS and BP, and found the most common reason applicants get rejected is their (consistent!) failure to tailor job applications and CVs."

Source: Warwick University "Careers Blog," 2013

Crafting an effective

"Resumé (or CV) killers"

Here are some of the biggest no-no's that hiring pros say they see all the time:

- **1. Using a ridiculous email address:** Your friends may know exactly why hairofthedogdude@yahoo.com is fitting for you, but recruiters and hiring managers may not be so amused.
- **2. Making spelling errors and grammatical mistakes:** You will be hired in a role requiring attention to detail and accuracy, so not proofing your own documents discredits you from the start.
- **3. Including crazy fonts, colors and other graphics:** Creativity is desirable in many jobs, but CV's that look like art projects are not. Keep it simple and clear, and don't use too many different fonts or blocks of color. Even for architectural or industrial design jobs, the best place for displaying your design skills is not in the application itself, but rather in a portfolio or via a link to a website with samples of your work.
- **4. Not using keywords:** Terms particular to the job you want and the relevant skills you have should feature prominently on both your CV and your LinkedIn profile.

NB: "useful repetition" of technical skills, certifications and instruments in the descriptions of your experience will reinforce these.

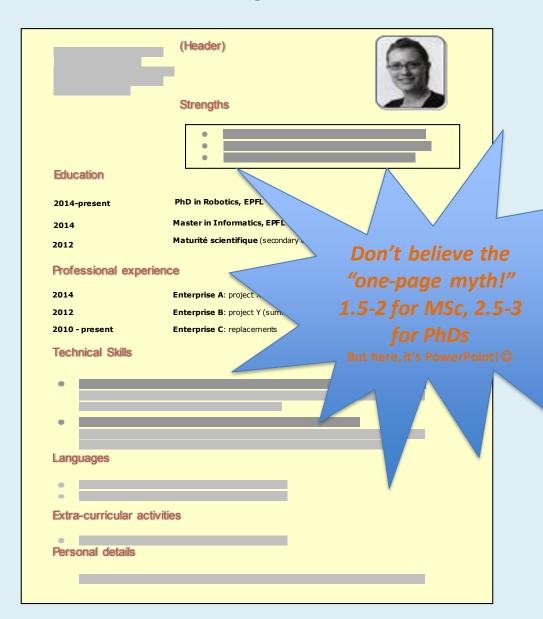
he

"Just **ONE** grammar mistake and your CV gets chucked"

Your CV must show your ability to be concise and to **emphasize what matters**, and wherever possible, talk about results—measured, or potential.

Industry-oriented CV

in reverse chronological order



Header

First name, last name and contact details: postal address + one email, one telephone number

Strengths (Key Skills)

A summary of what you want the recruiter to focus on; should be adapted to each role/company. ATS programs will pick up the key terms set in their search parameters!

Education

Don't go further back than secondary school; if MSc in Bologna system, and no radical change, BSc not necessary (careful of "false friends!")

Professional experience (split into "Core & Additional")

List your most relevant experiences, including thesis/post-doc work

Technical Skills

Describe techniques/tools/industry processes, not only software

Languages

Level of proficiency, certificates, language travel

Extra-curricular activities

Limit yourself to the most interesting ones

Personal details

Citizenship (plus Swiss permit), age, civil status, driving license, military status (if male; no obligations = a small advantage)

Style & formatting

It also needs to look "clean;" well laid out + organized+ easy-to-read = want to read! Don't overdo the design elements, though: most of you are not graphic designers!

Your first readers are often young HR staff, but the second readers are more senior, and may also be engineers or researchers, or have recruited for technical positions for many years: express yourself like a professional, not like a student:

- Describe "technical skills" rather than "relevant courses" or "interests"
- "Show, don't tell" soft skills in particular (contextualized examples, not lists)
- Detail "results" rather than "tasks"
- Mention constraints met (time, budget, quality)
- Avoid too many mentions of Academia

Most recruiters are not technical specialists. Don't expect them to intuit anything you have not expressed. Describe your projects and thesis in terms which **both** another tech person and a generalist can understand. If they want more detail, they'll ask you!

NB: many of your "first readers" are either quite junior, or "dinosaurs;" both notice typos, grammatical errors and "gaps" in a way that may seem unfair, but is common.

Crafting an effective CV Forum Skills

Week Spring 2023



Out there...but if it works...



I'm a Ph.D. student at the University of Washington interested in computer vision, including object detection, image classification, and model compression.

Education

Ph.D. (in progress)	University of Washington	3.8 GPA	2013 - 2019
M.Sc.	University of Washnigton	3.8 GPA	2013 - 2015
B.A.	Middlebury College	3.7 GPA	2008 - 2012

Publications

YOLOv3: An Incremental Improvement

arXiv 2018

Joseph Redmon, Ali Farhadi

Cited by: 144

Who Let The Dogs Out? Modeling Dog Behavior From Visual Data

Kiana Ehsani, Hessam Bagherinezhad, Joseph Redmon, Roozbeh Mottaghi, Ali Farhadi

Cited by: 2

IQA: Visual Question Answering in Interactive Environments

CVDD 2010

Daniel Gordon, Aniruddha Kembhavi, Mohammad Rastegari, Joseph Redmon, Dieter Fox, Ali Farhadi

Cited by: 26

YOLO9000: Better, Faster, Stronger CVPR 2017, Best Paper Honorable Mention

Joseph Redmon, Ali Farhadi

Cited by: 1360

XNOR-Net: Imagenet Classification Using Binary Convolutional Neural Networks

ECCV 2010

Mohammad Rastegari, Vicente Ordonez, Joseph Redmon, Ali Farhadi

Cited by: 844

You Only Look Once: Unified, Real-Time Object Detection

CVPR 2016. OpenCV People's Choice Award

Joseph Redmon, Santosh Divvala, Ross Girshick, Ali Farhadi

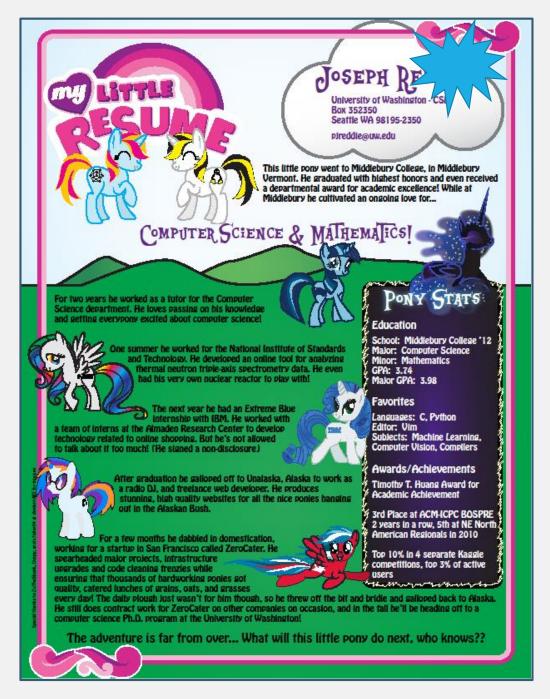
Cited by: 2773

Real-Time Grasp Detection Using Convolutional Neural Networks

ICRA 2015

Joseph Redmon, Anelia Angelova

Cited by: 134



Crafting an effective CV Forum Skills Week Spring 2023

- Data mastery: Pandas + Apache Flink & Storm
- Nano-fabrication and Micro-electronics
- Minor in Technology & Entrepreneurship
- Alloy specialist + ISO/TC 119/SC 2-4

Objective: to contribute my expertise in data processing, microelectronics and audio engineering, with my crosscultural communication skills, in an international consulting environment.

Objective: to get a first job in electrical engineering

Header

- First and last names, postal address, telephone, email (not EPFL)

 Photo generally on upper-right

 Skype (a must for screening) & button for LinkedIn (a plus!); other social media buttons for ResearchGate or GitHub can also be added here (not Facebook, Twitter or Instagram)
- Put personal information (age, marital status, nationality) elsewhere (end of page two)
- Avoid non-professional email addresses (e.g. king_bozo@2kewl4u.com)

Strengths

- An impactful summary on what you want the recruiter to remember
- You can substitute an objective line showing what key skills you will bring to the job, but it must be dynamic (ex. 2), not simply stating the obvious (see below)
- "Lifestyle" or self-centered objectives alone have limited impact (ex. 3)
- When answering a particular job ad, focus on strengths most relevant to the position
- ATS programs will be set to look for key terms, usually linked to hard skills—it's an advantage to have these listed in several places!

in three separate places at the top, in your descriptions of experience, and also in your Technical Skills section.

Really?! Maybe that's why you

applied...

Useful repetition: your key competencies may be listed

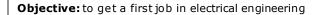
Create a QR code for your LinkedIn profile for printed copies? See:

Strengths (continued)



- Data mastery: Pandas + Apache Flink & Storm
- Nano-fabrication and Micro-electronics
- Minor in Technology & Entrepreneurship
- Alloy specialist + ISO/TC 119/SC 2-4

Objective: to contribute my expertise in **data processing**, **microelectronics** and **audio engineering**, with my crosscultural **communication skills**, in an **international consulting** environment.





Strengths: usually "hard" skills matching as closely as possible the requirements listed in the job ad, or best corresponding to your spontaneous offer (which will be generated from your research and networking)

- Use short phrases with clear summaries but add tools/programs when you can.
- Objective lines must be "active" and show what you will bring to the job and to the company.
- Stating the obvious adds exactly zero value to your application.
- If soft skills (i.e. human languages, teamworking) are asked for, include these here, but generally speaking, stick to you top tech skills.

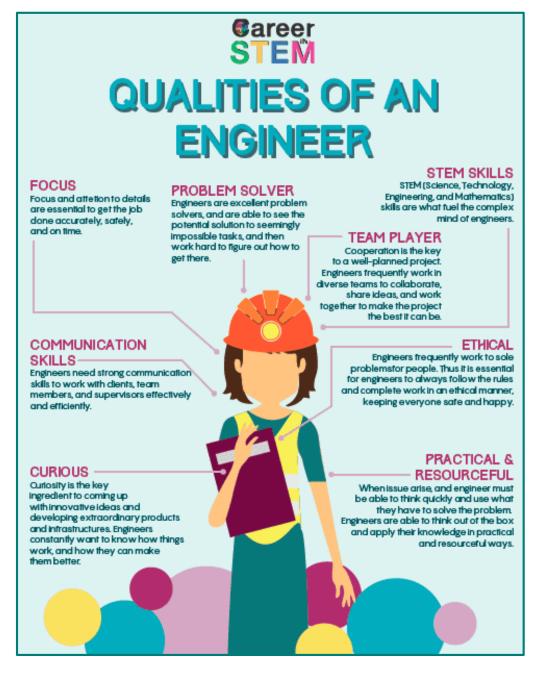
Your "Strengths" (or "Key Skills") in this context are not character traits. Instead, they must answer the question, "Can this candidate do the job?" very clearly—and ideally, severally! Do not then water them down by listing all of your expertise just below...keep a separate, comprehensive section further on in your document.

Communicating value: this starts with your belief in the value you will bring to your future employer

As a young professional, you will be hired primarily for your technical skills, though "soft" skills will also be taken into account in the final selection process.

No one can guess at what you have done: you must communicate in detail your key skills at the top of your CV, and all of your competencies in the descriptions of your experience to date as well as in the "Technical Skills" or "Expertise" section of your CV and in your LinkedIn profile.

You should also include these as you describe your experience, to give context and credence.



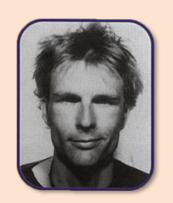
Should I add a photograph?

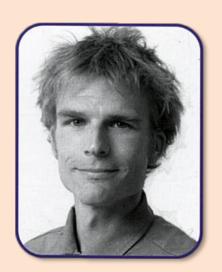
- Recommended as it's likely to be the only visual element and personalizes your CV
- The image projected can vary enormously depending upon the photo you choose
- An effective photo underlines both parts of your identity, "young professional"
- "Ugly" vs. "Normal" = 56% fewer job interviews (according to study in France) 1











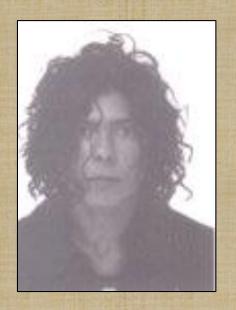




Not legal in US, UK, Canada...though with LinkedIn, Facebook, etc. now a nonsensical law.

¹ French *Observatory on discrimination in the workplace* "Testing sur CV (2004)." Photos: jobguide.ch

Real pictures...for executive posts!







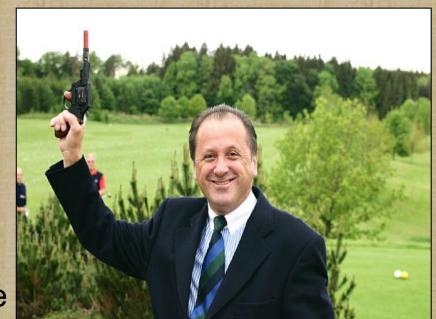


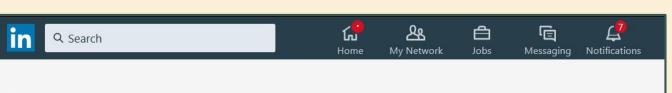


Crafting an effective











Ben Peterson • 3rd Algorithm Engineer Boulder, Colorado



⊘ Pending



Photofeeler



Carnegie Mellon University -Tepper School of Business



See contact info



186 connections

Mathematician. Full-stack web developer. Optimization algorithms PhD and experienced algorithm designer and coder in academic, Fortune 500, and startup settings.

Go-to guy for unique mathematical challenges. Especially good at heuristics for "unsolvable" problems with vague objectives or data.

Presently co-founder and CTO of Photofeeler, a tool for testing profile photos (business, social, dating). Interested in advising or consulting other startups on their algorithm challenges.

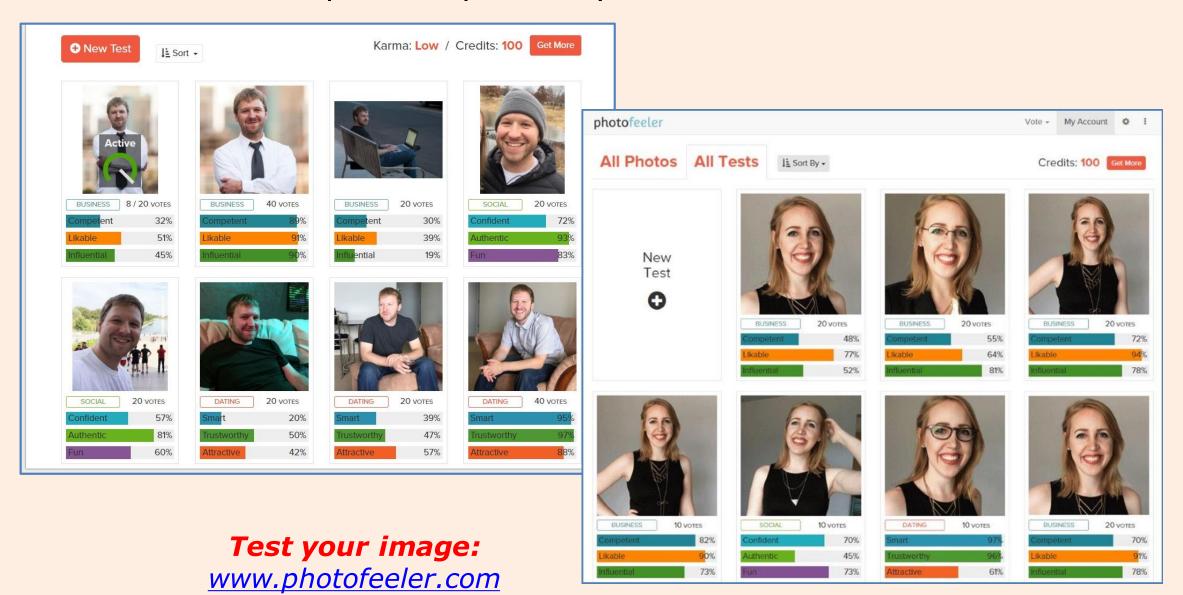
Like founder, like users?

Although the site offers the possibility to test image impact for both business and social (including dating sites like Tinder!), for job search purposes, the former is the one we're interested in.

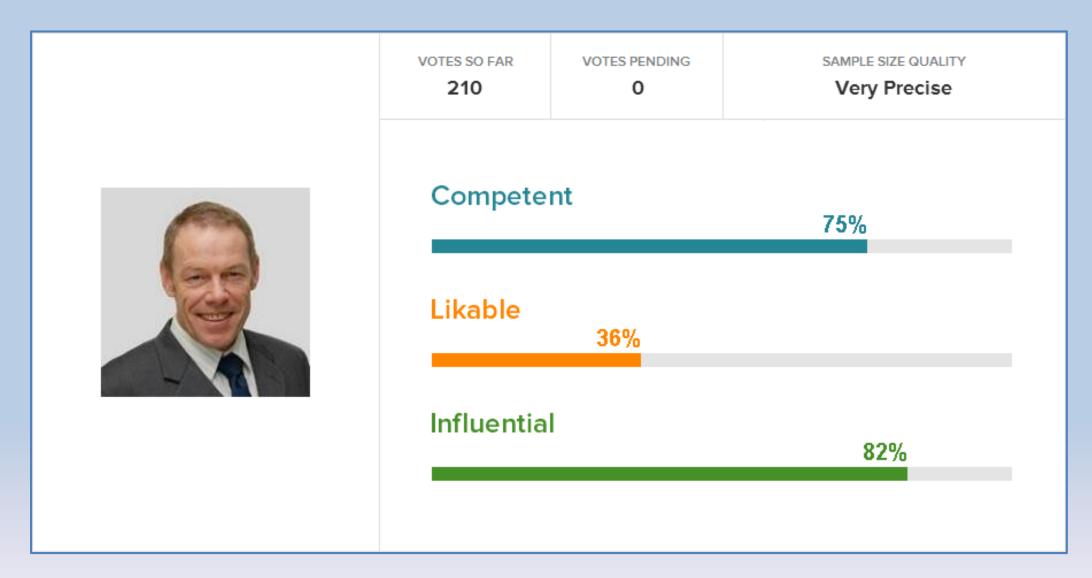
Their service is free if you play the game, and responses are rapid; if you prefer to buy "votes" you can, too. We suggest loading several photos to see which gets the highest overall ratings.

With a database of more than 65k photos, they have analyzed dozens of aspects which can affect the impact of your photo.

How well does the photo represent you?

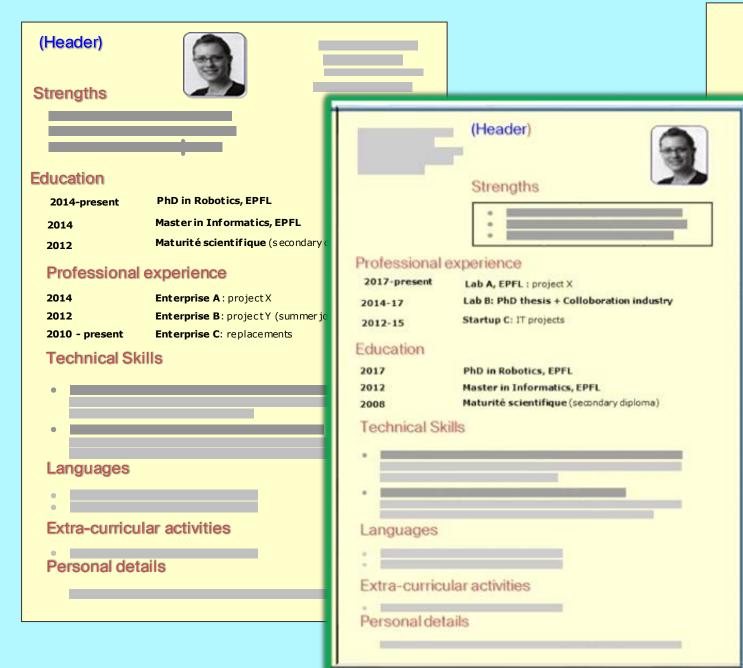


Sacrificing my ego for the greater good?



www.photofeeler.com

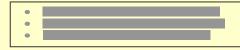
Placement matters.





(Header)

Strengths



cation

4-present PhD in Robotics, EPFL

Master in Informatics, EPFL

Maturité scientifique (secondary diploma)

fessional experience

Enterprise A: project X

Enterprise B: projectY (summer job)

- present Enterprise C: replacements

chnical Skills

guages

ra-curricular activities

sonal details



The TOP is *top* priority!



You have only one chance to make an excellent first impression.

The layout and style count, and so do the quality of your photo, the grammatical correctness of your phrases, and the relevance of your profile to the needs of the company.

Most importantly, your key skills ("Strengths") need to answer the first question each recruiter has, "Can this candidate do the job s/he is applying for?"

Drawing: http://chrisbanford.com/

Education & Experience

Education

2014 Master in Computer Science, EPFL

2010 - 2013 CS Engineering Studies at EPFL

One-year exchange at Carnegie Mellon University

2010 Maturité (option maths/physics), Gymnase XYZ

Professional Experience

2013 Company A: lava developer (Six-month internship)

2011-2012 Company B: Webmaster for startup in Lausanne

2011-2013 Lab C: Helpdesk technician (temp)

Contributions

- Bottom line
- Enhancements
- **S**avings (time, costs, material)
- Transformation

Education

- ✓ **Education** comes before **Experience**
- ✓ List degrees and honors explicitly
- ✓ Mention exchange periods abroad
- ✓ Don't go further back than end of secondary school, unless notable (e.g. studies were in another language)

Professional Experience

Emphasize

- Contributions made
- > Responsibilities and
- Constraints faced

Give each experience the **weight it deserves** ("laundry list," i.e. too much detail for short-term post = risk losing value)

Teaching, summer/part-time student jobs: additional, not "Core" experience; which ones imply **transferable skills?**

Student associations: appreciated by employers when roles imply responsibility and dealing with external parties, but not usually listed under professional experience. If you managed a Solar Decathlon or Hyperloop team, that might be different!

Crafting an effective CV_Forum Skills
Week Spring 2023



Università Della Svizzera Italiana

University of Neuchatel

* Institutions within the same rank range are listed alphabetically.



501-600

901-1000

Global University Employability Ranking 2019

Search institution name or country to filter by that nation

Search: switzerland

MKING OF WORK	ACADEMIC	
A JANAGE SHAMING	RANKING OF	SINCE
NO.	WORLD UNIVERSITIES	2003

WORLD 2003 UNIVERSITIES				
Home About	→ Rankings → Survey → Universities GF	RUP Initiative - Conference Advertis		
Home>> ARWU 2019				
Academic Rank	ing of World Universities 2019	Switzerland		
Country Rank	Institution	World Rank		
1	Swiss Federal Institute of Technology Zurich	19		
2	University of Geneva	58		
3	University of Zurich	61		
4	Swiss Federal Institute of Technology Lausanne	78		
5	University of Basel	87		
6	University of Bern	101-150		
7	University of Lausanne	151-200		
8	University of Fribourg	401-500		

EPFL's brand recognition for Swiss market is
undeniable, but also growing globally

	Employability Rank 2019	\$ Institution	Country/region	Employability Rank 2018
rtis		PROFESSIONAL		TS RANKINGS
	19	École Polytechnique Fédérale de Lausanne	Switzerland	25
	77	University of Zurich	Switzerland	75
	89	University of Lausanne	Switzerland	Wheth work(-
	109	University of Bern	Switzerland	and st
	113	University of Basel	Switzerland	you ne
	173	University of Geneva	Switzerland	it's "fro your L
	222	University of St Gallen	Switzerland	your C

Whether you "only" work(-ed) here, or worked and studied, EPFL gives you a "local brand," and you need to make sure it's "front and center" on your LinkedIn profile and your CV...

THE World

University

Ranking 2020

STUDENT

=38

90

Crafting an effective CV_Forum Skills Week_Spring 2023

EPFL ranked 21st in terms of employability; was 20th the previous year



ANKING INSIGHTS V

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METHODOLOGY

CONTACT

There is you to search

University	Country	2020	2021	Evolution
Columbia University	USA	16	16	>(0)
New York University	USA	11	17	~ (-6)
Imperial College London	UK	18	18	>(0)
IE University	Spain	25	19	^ (6)
Australian National University	Australia	15	20	~ (-5)
École Polytechnique Fédérale de Lausanne	Switzerland	20	21	∨ (-1)
CentraleSupélec - Paris Saclay University	France	22	22	> (0)
Hong Kong University of Science and Technology	Hong Kong	26	23	^ (3)
Tokyo Institute of Technology	Japan	31	24	~ (7)
HEC Paris	France	24	25	∨ (-1)
University of British Columbia	Canada	28	26	^ (2)
Indian Institute of Technology Delhi	India	27	27	> (0)
Nanyang Technological University, Singapore	Singapore	29	28	~ (1)
McGill University	Canada	23	29	~ (-6)
Ecole Polytechnique - Institut Polytechnique de Paris	France	30	30	>(0)



TOP TWELVE COUNTRIES FOR EMPLOYABILITY

Share of votes for universities in the global ranking



The 2021 Ranking

The Global Employability University Ranking and Survey (GEURS) shows which are the **Best 250 universities** in the world, when measured by employers. First released in 2010, the GEURS ranking is produced by Emerging and is currently the **second most used ranking by employers worldwide**.

Since 2016, it is published in partnership with the Times Higher Education. Our <u>dashboard powered by HEEP</u> monitors university performance over time.

ETHZ = 11th (was 13th); HEC Paris = 25th!

Education (a) **EPFL**

× No

Education

Master thesis: "Ascertain nicotine 2019 rates in living cells using

impedance measurement"

2017-2018 Specialization in Applied Photonics

2017 LMIS-EPFL: Automating glue dispersal

on a translating flexible substrate

(summer internship at EPFL)

2015-2016 Reading Micro-engineering at EPFL

2014 **Secondary diploma**

2011-2014 Secondary school, Gymnase de la

Cité, Lausanne

2002-2011 Elementary school, Collège du

Martinet, Rolle

Education

Master of Science in Micro-engineering,

École Polytechnique Fédérale de Lausanne (EPFL)

Major in Applied Photonics 2019

- Major in Applied Photonics
- Minor in Management of Technology
- Academic exchange year at Imperial College

2014 Maturité (secondary diploma), Gymnase de la Cité, Lausanne



EPFL Education (b)

× No

Education

2019	Master thesis: "Ascertain nicotine rates in living cells using impedance measurement"
2017-2018	Specialization in Applied Photonics
2017	LMIS-EPFL: Automating glue dispersal on a translating flexible substrate (summer internship at EPFL)
2015-2016	Reading Micro-engineering at EPFL
2014	Secondary diploma
2011-2014	Secondary school, <i>Gymnase de la Cité</i> , Lausanne
2002-2011	Elementary school, <i>Collège du Martinet</i> , Rolle



Even in English, keep the initials; this approach gives you a "local brand!"

Education

Swiss Federal Institute of Technology, Lausa Hite (EPFL) 2019

Master of Science in Micro-engineering

- Minor in Management of Technology
- Academic exchange year at Imperial College (Spring 2018)

Gymnase de la Cité, Lausanne Maturité (cocondany diploma): Science Section

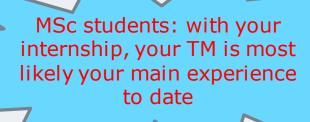
Maturité (secondary diploma); Science Section

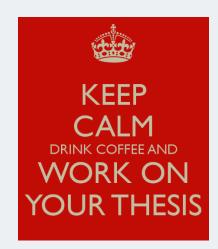
Simple & to the point: with your "local flag" first, and the date last...

Crafting an effective CV_Forum Skills Week_Spring 2023

2014

Where do I put my thesis?





- All academic titles (and special honors, plus exchange terms) should be listed under "Education."
- A description of your thesis work can be placed either in the traditional "Academic Projects" section, or, better, in the
- "Professional/Core Experience" section, especially if linked to industry (or done within a company);
- Can be adapted re. company/post you are applying for.

"Selling" your experience to industry

- For those who have done both an internship and a TM, make sure to include both under experience (most likely "Core," or most relevant).
- Describe your work clearly, in terms which a generalist can understand, but which would also make sense to another engineer/scientist.
- Explain your responsibilities in terms of project management: timeline, budget, team/meetings/role/language(s), innovations, extra tasks + evaluation (successful? how did you know?).
- Publications, conferences and/or teaching and supervising BSc theses at Master's level would be exceptional, and worth including in core experience (as opposed to PhD level CV's). PhD's would list these under additional experience, however.







Your thesis in five lines (or less), in business terms

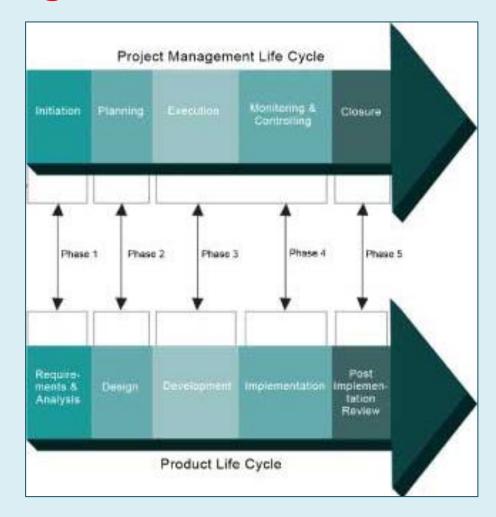


"My objective was to determine the main parameters of the dynamics of molecules during a chemical micro-reaction in a helium droplet. In a very short timeframe, I developed a powerful yet simple model that predicts the resulting stereoisomers with 40% higher precision than traditional methods. This could lead to significant savings for the chemical industry. I was also involved in the purchase of mission-critical lab equipment, and negotiated a 20% price discount."

- Describe your work clearly, in terms which a generalist can understand, but which would also make sense to another engineer/scientist.
- Explain your responsibilities in terms of project management: timeline, budget, team/meetings, role/language(s), innovations, quality control, extra tasks
- Milestones/evaluation of success: how did you know, and what were the outcomes?
- Emphasize results and other contributions, including "hidden duties or responsibilities." Describe any potential economic implications.
- For PhD's: Teaching and supervising MSc theses are less important (add under "Additional Experience").
- If linked to industry (patents, partnerships, mandates) highlight this; otherwise describe outcomes in terms of potential commercial impacts.

Your thesis in terms of project management

The 5 Phases of Project Management **Project Life Cycle** The 5 Phases of Project Management is also called the **Project Lifecycle.** The 5 Phases of Project Management consist of: Project Initiation Phase **Project** Project Planning Phase Initiation ☐ Execution Phase Monitoring and Control Phase □ Project Closeout Phase



NB: describe your thesis in five sentences or less, in terms of project management, with constraints, key responsibilities, budget and results.

Core vs. Additional Experience



New category, adding emphasis & focus

Professional Experience

2009

2011 Design of a motor oil film thickness measurement system (BOSCH Research Institute, 1027 Lonay)

2009 City of Lausanne (Housing Service) – City of Lausanne (Internet Group) – ACM (Archives de la construction moderne EPFL):

- Design and development of the City of Lausanne Housing Service website

2007 Teaching Assistant for electronics practicals (Electronics Lab EPFL)

2007 School of Computer and Communication Sciences EPFL Teaching Assistant for a web design course for girls

2008 Assistant-Surveyor, Lausanne Power Authority

As with your "Strengths," customize this part of your CV for each position you apply for...



Core Experience

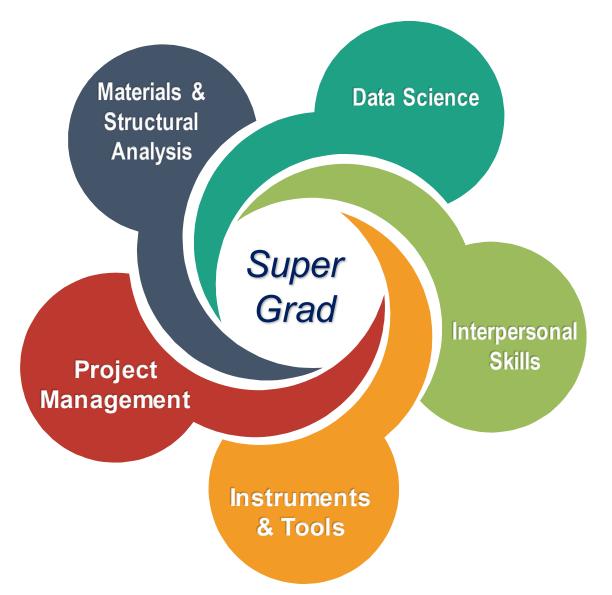
Core Experience	
Powder Technology Laboratory (LTP), EPFL "Design of spectacle components in shape memory alloys." Doctoral Thesis	2016-present
Concept to prototype modelling in C+++ of Ni-Mn-Ga alloys with optimized twin microstructures. Based on my work, the host company is currently developing model prototypes.	
BOSCH (3-month internship) Design of a new motor oil film thickness measurement system using laser-induced fluorescence. Validated proof-of-concept in < 3 months, with precision enhanced by 35% vs. the previous system.	2015
Lausanne Power Authority: Assistant-Surveyor. Surveyed underground electrical networks and entered the topographic data in AutoCAD.	2013
Additional Experience City of Lausanne (part-time 20%) Design and testing of the City's Housing Service website, on a very tight budget with focus on maximum quality. The website was successfully launched in October 2009.	2014
Electronics Lab, EPFL Teaching Assistant for electronics practicals (EN and FR).	2012-14

Pix4D, Lausanne: plat survey review project (summer intern).

2012

Your amazing super strengths – Revisited

Don't list courses (unless outside of your discipline): show, don't tell, what you can do!



Think carefully: brainstorm about all the things you have learned in the past two to four years then don't be shy about including them here, and selecting for your "Strengths" section.



No false modesty allowed!

Be complete & consistent: here and on LinkedIn!

Add"soft" or

business skills

Technical Skills

Material Synthesis Processes

Magnetron Cathode Pulverization, Electric arc, melt-spinning

Physical and Structural Characterization Techniques

Transmission Electron Microscopy (TEM) in traditional and high-resolution modes (HRTEM), Energy-dispersive X-Ray spectroscopy (EDX), XPS and SIMS Spectroscopy, X-Ray Diffraction(XRD), Atomic Force Microscopy (AFM), Scanning Electron Microscopy (SEM)

IT: EMS, LabVIEW, Cerius2, Image-Pro. Good command of several other image analysis / image processing programs. MS Office (XP-W10; PC and Mac)

Project Management:

Logistics, coordination, budget control for international hydrofoil competition (see "Core Experience"). Supervised five MSc thesis students (one patent pending).

> Your "toolkit" is likely to get you the job!

Technical Skills (or "Expertise")

- Particularly important for recent graduates
- Mention key technical & project management skills
- List of skills acts as a repository of keywords indexed § by Applicant Tracking Systems
- IT Skills: priority to specialized software used in industry/sector (+ acronyms when common)
- **Data Science:** programs, tools, methods, cluster computing, data libraries, stochastic analysis
- IP (patents), Euro lab levels, ISO certifications, etc. all "money in the bank" for future employers
- ■Don't forget Clean Room, Wet lab, en vivo, SQL, lab safety training, debugging
- Intercultural and Science Communication, Team Effectiveness, Influencing without authority, and other interpersonal skills complete your profile...

mechanical

systems equipment analysis HVAC electrical drawings BSME building product CAD development engineering

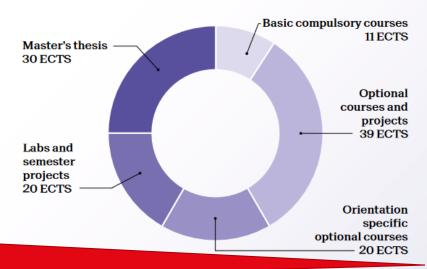
> What the school says you've learned...

EPFL

The mix of what a mechanical engineer knows...

Master of Science in ROBOTICS

2-year program - 120 ECTS



The program includes a compulsory industrial internship with a minimal duration of 8 weeks.

Students must choose 20 ECTS of optional courses in one of these three orientations:

- A Industrial robotics
- B Medical robotics
- C Mobile robotics

The optional courses and projects (39 ECTS) include either:

- Optional courses (19 ECTS)
- 1 semester project (10 ECTS)
- 1 interdisciplinary project or more optional courses (10 ECTS)

Young Basic compulsory Applied machin professionals are Basics of mob hired for their Model prediction current skills and their potential to C 59 Optional cou conitjue learning Advanced con Advanced mach new ones! Advanced MEMS & С С Advanced satellite pos Analyse de produits et systèm Analysis and modeling of locomotion В C Biomaterials Commande embarquée de moteurs C Computational motor control В С Computer vision Conception mécanique intégrée Continuous improvement of manufacturing systems Controlling behavior in animal and robots в с C Deep learning В С Distributed intelligent systems Embedded systems **Evolutionary robotics** C Flexible bioelectronics С Flying robots Fundamentals of computer aided manufacturing C Fundamentals of neuroengineering Haptic human robot interfaces С 3 How technology shapes the workplace of the future Image analysis and pattern recognition В C Image processing I В

OR

Data is king—across all sectors!

TensorFlow

with TensorFlow



MATLAB











A tool is only as good as the person who uses it. Don't forget data libraries, super-computer crunching, preprogrammed instruments or machines, safe cloud computing and machine learning.

Got it? Flaunt it!

- Prince2 or PMI certification for project management
- MOOC's and Coursera for QA and data science:

https://www.class-central.com/tag/quality-assurance

- Technical writing certification: https://www.wordrake.com/blog/thinking-technical-writing-certification-3-consider
- List all lab and machine certifications
- Health and (lab) safety training, first aid, chemical and electrical; other specialized systems training (formal & informal)
- Patents pending or obtained!











Web Diagram My Strengths Check LinkedIn profiles of Alumni with 3-5 years' experience: what skills do they show and how do they describe themselves?

As you read job ads, note the top skills requested, and if you have these but haven't yet listed them, add them to your CV and to your LinkedIN profile!

Spend 5-10 minutes writing, while listening to music (optional). Afterwards, using highlighters, group results to use in establishing your most relevant hard and soft skills--for your CV and LinkedIn profile.

CLASS CENTRAL

MOST

POPULAR

COURSES

https://www.classcentral.com/ The New Hork Times Continue Your Life's Education With Free Online Classes Fancy an Ivy League education? Among others, you can sign up for "Constitutional Interpretation" from Princeton, a course in African-American history from Yale or an introductory computer-ONLINÉ COURSES **OF ALL-TIME** IVY LEAGU UZ ASS CENTRAI Hundreds of colleges and universities have made digitial versions of popular courses available online for

Tech Tip

Continue Your Life's Education With Free Online Classes

If you're pondering a career shift, looking to learn a specific skill or just plain bored, consider a web-based class to broaden your horizons.

https://www.nytimes.com/2020/09/09/technology/personaltech/education-free-online-classes.html

Linguae: frankly!







Languages

English Fluent spoken (C1) and written (C2)

One-year exchange at Imperial College, London

German Intermediate level spoken and written (B1)

Zertifikat Deutsch from Goethe Institut.

French Native language

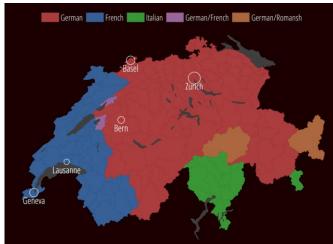
- Accurate level of proficiency (modesty pays), certificates if any, language travels (place and duration).
- In Switzerland, 82% of ads mention language requirements. Learning or improving a Swiss language *during* your job search will be seen in a positive light by potential employers.
- Expectations are high & levels may be tested during interviews. Rate "Spoken" and "Written" and if different, note these: e.g. "Intermediate Spoken (B2), "Fluent Spoken (C2)"
 - Use auto-evaluation grid from EuroPass: https://europass.cedefop.europa.eu/sites/default/files/cefr-en.pdf
 - Evaluate your proficiency with DIALANG:
 http://www.lancaster.ac.uk/researchenterprise/dialang/about Or
 - On Ecole Club-Migros site: http://www.ecole-club.ch/Themes/tests-d-evaluation/test-de-langue

Separate from other skills, so they are easy to find.



Language courses nearby





The best time to plant a tree was 20 years ago. The second best time is now.



French:

- EPFL: https://langues.epfl.ch/courses-offered/french/
 Ecole-Club Migros: https://www.ecole-
- Ecole-Club Migros: https://www.ecole-club.ch/Offres/Langues/Cours-de-francais
- Swiss French School: https://swissfrenchschool.ch/lausanne
- Etudes Modernes (Morges): http://ecole-langues-vaud.html

German:

- EPFL: https://langues.epfl.ch/courses-offered/german/
- Ecole-Club Migros: https://www.ecole-club.ch/Offres/Langues/Cours-d-allemand
- Etudes Modernes (Morges): http://ecole-langues-vaud.html

Italian:

- EPFL: https://langues.epfl.ch/courses-offered/italian/
- Ecole-Club Migros: https://www.ecole-club.ch/Offres/Langues/Cours-d-italien
- Academia: https://www.academia-lausanne.ch/ls/en/language-courses/italian.html
- Etudes Modernes (Morges): http://ecole-langues-vaud.html

List of recognized certificates:

https://www.fide-info.ch/doc/08_Sprachenpass/fideFR08_ListeCertificatsReconnus.pdf

Extracurricular activities

Extracurricular Activities

- Gilly Football-Club, treasurer; trainer for junior championships (six years)
- -Advisor to the local Boy Scout troop for five years
- -10k and half-marathon (team & individual)
- -Subscriber to Nature and The Economist

Personal Information

26, single, Swiss and French citizenships. Discharged from military service. Swiss driver's license (Type B).

References available upon request (optional)

This section is a "gift to the generalist," and allows for a non-technical closing to your job interview.

S/he also wants to to know how you stay healthy, and whether you'll fit in with "their" team...

both impacting the bottom line!

Personal interests 1

Perceived images:

Team Sports: stamina, competitive spirit, team spirit, willingness to go beyond limits; Switzerland may be the only place where extreme sports are well seen!

Arts: emotional intelligence, sensitivity, creativity, openness; **Group activities/associations:** interpersonal and communication skills, leadership; difference between membership vs. role with responsibilities.

Some recruiters jump to conclusions:

Individual sports only = lack of team spirit
Volunteering in humanitarian orgs = not business-oriented
Solo hobbies = unable to socialize
"Movies, reading, music" = conformist type, lacks creativity.

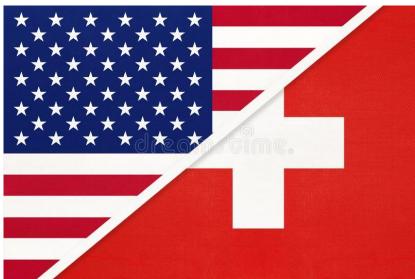
- Don't be "falsely modest;" state your achievements!
- ➤ Do not mention political affiliations or religion.
- > Add online news or magazines you read regularly.

¹ not "hobbies," which has negative connotation



Résumé (Anglophone countries) vs. CV (rest of the world)





Basically, you cannot put a photo on the US (UK, Canada, Australia) version and you should not mention the following:

--your age or birthdate;

--your civil status;

--your sexual orientation, religion, politics.

Some of this is nonsensical with social media, but remains not only standard practice, but often the law (to avoid prejudice), so if you include these, your application may simply be discarded.

But you should keep your contact details (including LinkedIn) and your nationality: in nearly all cases, the employer will have to ask for a work permit if interested in hiring you.

Crafting an effective OV_Forum Skills Week_Spring 2023

Applicant Tracking Systems



CV's sent by email or uploaded on a company website are often analyzed by specialized software (*parsers*), especially if you've made a spontaneous offer...¹

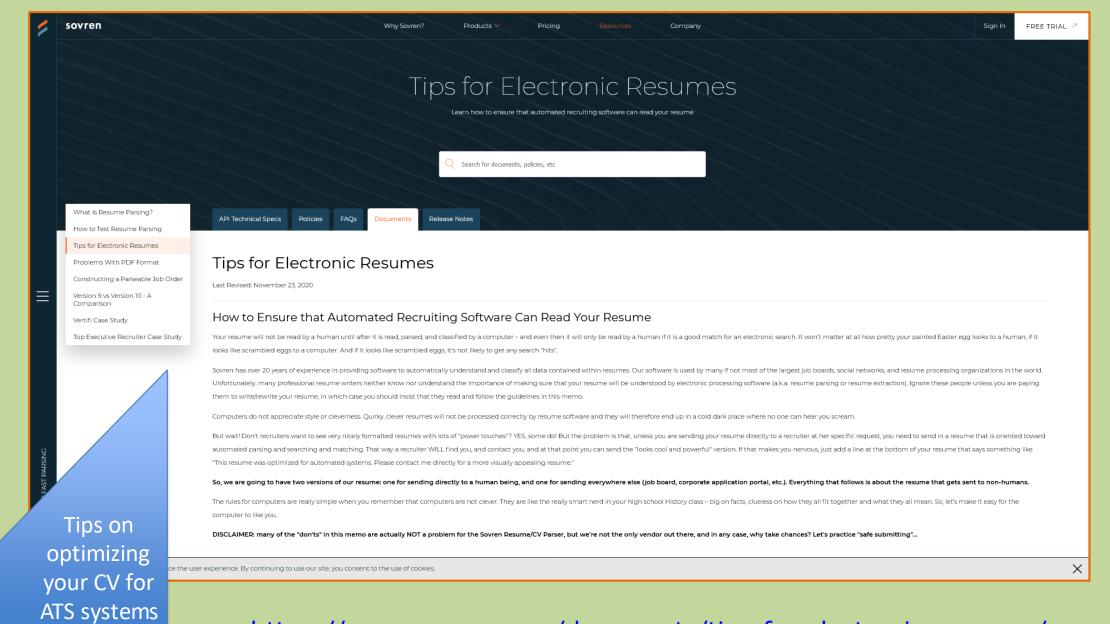
Collected profiles are stored on a searchable database which allows recruiters to find specific profiles/skills (usually timed out @ 90-180 days)

Providers

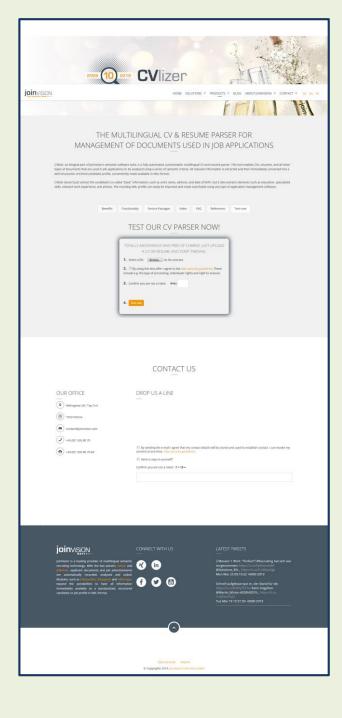
- ATS: Taleo (Oracle), Kenexa (IBM), NetMedia, SuccessFactors (SAP), Peoplefluent
- Resume Parsers: Sovren, Daxtra, BurningGlass, HireAbility, Textkernel



¹ How many does Nestlé get per month?



https://www.sovren.com/documents/tips-for-electronic-resumes/



Test the potential impact your CV is likely to register on an ATS: free parser at www.cvlizer.com

NB: you must use codes linked to job ads and have your name on all docs so the systems can find your application materials! If you follow our advice about listing your strengths, having a comprehensive list of your technical skills and include them in your descriptions of your experience (= "useful repetition"), you should not need an ATS-optimized template.

Spontaneous offers: old-fashioned style

For your top 10%:



Call first (1818, if not on web) to ask whom you should address.

Send by postal mail:

- A4, not folded, priority mail (2.4 CHF)
- CV + documents in plastic cover
- Letter on heavier paper, slightly different color, signed by **hand**

Follow-up by phone in 10 days: restate your interest & ask if they need anything else from you.

92% of Swiss companies are SME's, many founded by EPF(L) Alumni.

Crafting an effective

CV Forum Skille

Quick checklist

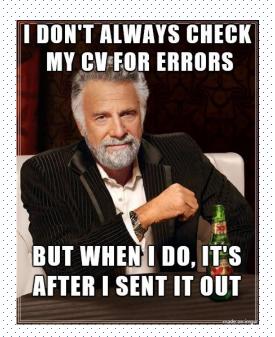
Adapt your CV for each sector or job you apply for:

Emphasize most relevant items and reduce importance of others.

The more technical the job, the more detailed your list of tech skills should be. The opposite also applies.

Publications, posters, conferences → only for academic or research positions (where a PhD is frequently required). Know the culture: PMIvs. MindMaze...

Publications, teaching or supervising at **MSc** level, however, is unusual & should be included!





NB: always ask a peer to proofread and give feedback; when ready, view your CV on screen, then print it in both black & white and color.

Contents:

Relevance, Conciseness, Consistency

Clearly separate *Education* and *Experience*Don't go overboard with detailing professional experience
Group together multiple experiences with the same employer

Form:

Spelling and grammar do **count**.

Don't use **cool fonts**; don't overuse **Bold**, *Italic* or <u>Underlining</u>

A good layout helps with the reading.

Templates save time:

300 in Word: http://www.hloom.com/

20 in LaTeX:

https://www.sharelatex.com/templates/cv-orresume

Save your document with your name Fischer_S_CV 2021

Or

Fischer_S_CV_Réf. J1-EP-47

Mischa Weber | Avenue du 1er Mai 12 | 1020 Renens | +41(0)79 574 37 65 | weber.mischa@gmail.com

Mischa Weber

born on the 19th of February 1993, Swiss citizen

Environmental Engineering student at the Swiss Federal Institute of Technology Lausanne (EPFL) with a Minor in Management, Technology and Entrepreneurship



Education

09/2018 - today École Polytechnique Fédérale de Lausanne (EPFL) Master of Science in Environmental Engineering. Minor in Management, Technology and Entrepreneurship 09/2013 - 12/2016 Swiss Federal Institute of Technology (ETH), Zürich Bachelor of Science in Environmental Engineering major subject: soil protection bachelor thesis: Influence of Calcium Chloride Concentration

and Changing Redox Conditions on Mercury Release Potential in Soils from the Upper Valais, Switzerland, Grade: 6

08/2008 - 07/2012 High School (Gymnasium), Küsnacht, Switzerland

linguistic profile, major subject: Italian maturity project: Minerals in Alpine Chasms

Working Experience

05/2018 – 09/2018	Yayasan Bina Sarana Bakti, Cisarua, Java, Indonesia Civil Service; Planning, construction and monitoring of a biological wastewater treatment plant (constructed wetland)
09/2017 - 02/2018	FRIEDLIPARTNER AG, Zürich Internship in the divisions geotechnics, soil protec-
06/2017 - 08/2017	tion/contaminated sites and building pollutants Polytechnic University, Hong Kong
00/2017 - 00/2017	Trainee at the Departement for Civil- and Environmental Sci- ences; Planning and execution of a scientific project
04/2017 - 06/2017	Swiss Federal Institute of Technology (ETH), Zürich Scientific Assistant at the Institute of Biogeochemistry and Pol-

lutant Dynamics (IBP)

"Before;" what would you change?

"After:" what do you think, now?

Mischa Weber

Avenue du 1er Mai 12 1020 Renens +41 (79) 574 37 65 weber.mischa@gmail.com

Linkedin | Skype

Strengths

- · Water treatment systems specialist
- Data processing and management + MTE
- · Cross cultural working experiences



Education

2018 - present Swiss Federal Institute of Technology, Lausanne (EPFL)

Master of Science in Environmental Sciences and Engineering. Minor in Management, Technology and Entrepreneurship

2013 - 2016 Swiss Federal Institute of Technology, Zurich (ETH)

Bachelor of Science in Environmental Engineering.

Major in Soil Protection

Core Experience

2019 - present Laboratory for Biological Geochemistry (LGB), EPFL

> Data analysis project: Investigating in correlations between urbanisation and environmental and social trends in Africa in order to predict different impact scenarios

using Python, NumPy and QGIS.

2018 - 2019 Soil Mechanics Laboratory, EPFL / Romande Energie

> "Technical and Financial Analysis of Deep Geothermal Heat Production in Epalinges" Determination of the deep geothermal potential for various technical systems using an infinite line source model. Estimation of investment- and operational costs and performing an economic evaluation of geothermal heat exploitation using a probabilistic approach. Study of regulatory constraints and potential contributions. The conclusions from this project added significantly to the decision making process of a

multi-million dollar energy project of Romande Energie.

2018 Yayasan Bina Sarana Bakti, Cisarua, Java, Indonesia (5-month civil service)

Budgeting, planning and construction a biological wastewater treatment plant (constructed wetland) under tight budget and time constraints. Leading a team of 5 construction workers, communicating only in Indonesian.

2017 - 2018 FRIEDLIPARTNER AG, Zurich (6-month internship)

> Analysis of legacy contaminated sites and hazardous building pollutants. Developing sampling concepts, analysis and interpretation of laboratory data, drawing of arranged plans (Vector Works) and writing of structured reports. Organization of three training courses for specialists in the field of building pollutant diagnostics. Monitoring of groundwater levels by means of electric gauges and data loggers; Data analysis and drawing of groundwater flow plans.

2017 Departement of Civil and Environmental Engineering, The Hong Kong

Polytechnic University (PolyU), Hong Kong (2-month trainee)

Research and Development. Conducting greenhouse experiments and investigating in

the release mechanisms of nutrients from struvite into the soil solution.

2017 Institute of Biogeochemistry and Pollutant Dynamics (IBP), ETH

Studying the formation and stability of metal sulphide nanoparticles (Cus. CdS) under reduced conditions using ICP-OES and ICP-MS (3-month scientific assistant).

"Influence of Calcium Chloride Concentration and Changing Redox Conditions on Mercury Release Potential in Soils from the Upper Valais, Switzerland", Bachlor

Thesis, Grade: 6/6



contact & info

albertociarr@gmail.com In/albertostawarkski T@l: +41 76 921 4211 Skype: albertostaw Russian nationality Swiss B permit

languages

- fluent English Prench - fluent

programming Python, C, Labview

data analysis & simulation

lgor pro. Mathematica. Matlab, Origin, Numpy/Scipy, ImageJ. Comsol, Synopsys Sentaurus TCAD, Solidworks

material characterization

SEM, AFM, Raman and PL spectroscopy, low-noise optical & electrical measurements, cryogenic systems (dry & wet) operation and maintenance

nanofabrication

Photo- and electron beam-lithography, thin films deposition, dry & wet etching. wire-bonding. Safety training for clean-room and laser hazards.

text & graphics

MS Office, LaTeX Wordpress, Adobe Illustrator, 3DS Max

AlbertoStawarski

Experimental physicist specialized in nanotechnology, working on opto-electronic devices based on 2D-materials. I have experience in managing complex projects and excellent communication skills perfected presenting in international conferences and writing articles in top journals

education

2016-2020 PhD Microsystems and microelectronics Topic: Novel optoelectronic devices in van der Waals heterostructures 2014-2016 MSc Solid-state physics University

2011-2014 BSc Physics

continuing education

Management of Innovation and Technology Transfer

110/110 cum laude (with Honours)

Training program in management of innovation and IP &

"Before;" what would you change?

professional experience

2016-2020 Research assistant

> Development of innovative optoelectronic devices based on 2D led a team of three people and in a short time frame developed funda new types of transistor and light-emitting devices (patent pending). Our re could lead to more efficient computing and data transmission in a wide rank of industries. My main responsibilities were:

- Project management and design of experiments
- Nanofabrication and characterization of devices based on 2D materials
- Design and implementation of measurement systems (hardware & software)
- Communication and dissemination (conference talks and scientific papers)

2015-2016 Developer

My task was to simulate and optimize the response of silicon pixel detectors. I developed an effective yet simple TCAD model which allowed the team to isolate issues and improve performance and reliability. The system is now in use in the Belle2 experiment in Tsukuba, Japan

Institut Laue-Langevin, France Summer intern

Research project on self-assembling polymers

other experience

Organiser, int. summer school "Optoelectronics on 2D materials" Davos, CH

- Raised 40k CHF from academic institutions and industry sponsors
- Website creation (https://2doptoelectronics2018.epfl.ch)
- Scientific program and logistics (worked in a team of 4)

2014-2016 Student representative

University of Pisa, IT

Delegate in faculty & department council (3 representatives for 400 students)

awards & achievements

Nature Photonics Feb-2019 cover

My work on new optoelectronic devices was the cover of Nature Photonics

2018 Patent PCT/IB2018/053779

Room-temperature excitonic transistor based on 2D materials. Patent pending.

My works on excitonic devices published in Nature and Nature Photonics were featured in more than 20 swiss and international news outlets.

"After:" what do you think, now?



Alberto **Stawarski**

Chemin de Montmeillan 12, 1005 Lausanne, Switzerland

🛘 +41 (0)76 427 10 54| 🖾 albertostawergmail.com | 🛅 albertostawarski| 🎓 Scholar

Experimental physicist specialized in microelectronics and nanotechnology. Published in Nature and author of a patent application, I combine strong analytical and communication skills with project management experience

- Optoelectronic devices fabrication & characterization
- Laser and optical systems design & implementation
- Project management in multi-cultural environment

Education

École polytechnique fédérale de Lausanne (EPFL)

Lausanne, Switzerland

2016 - 2020

PHD IN MICROSYSTEMS AND MICROELECTRONICS

Thesis: Electronic, excitonic and magnetic properties of two-dimensional heterostructures

University of Pisa Pisa, Italy MASTER IN SOLID STATE PHYSICS 2014 - 2016

Graduated 110/110 cum laude (with Honours)

Professional experience

Laboratory of Nanoscale Electronics (EPFL)

Lausanne, Switzerland

Oct 2016 - Present

RESEARCH ASSISTANT Development of innovative optoelectronic devices based on 2D materials. Worked in a team of 3 people and in a short time frame we developed a new type of transistor and light-emitting devices (patent pending). Our results could lead to more efficient computing and data transmission in a wide range of industries

- Led project to scientific breakthrough and patent application: room-temperature excitonic transistor
- Published 6 articles in high-impact journals (Nature, x2 Nature Nanotechnology, Nature Photonics, x2 Nature Comm.)
- Attracted a €150'000 proof-of-concept funding to develop the market potential
- Developed new device nanofabrication methods

National Institute for Nuclear Physics (INFN)

Pisa, Italy

2015 - 2016

TCAD design and modelling (Synopsys Sentaurus) to optimize the response of silicon pixel particle detectors

- Conducted a feasibility study of graphene- and silicon-based pixel detectors within the "Belle II" international collaboration
- Developed an effective vet simple numerical model of the system to capture the key phenomena
- My work allowed the team to improve performance and reliability of the device up to 20%

litional experience.

scale Electronics - EPFL

MER (CONCURRENT WITH RESEARCH ASSISTANT)

Lausanne, Switzerland Jan-Mar 2020

ab information management system/electronic notebook in collaboration with external supplier to track

gathering requests from users, reporting to executive, discussing implementation setting goals, project planning, evaluation

werable to final users

"Optoelectronics on 2D materials"

Davos, Switzerland

Dec 2017 - Sep 2018

40k CHF in funding from academic institutions and industry sponsors ite creation (https://2doptoelectronics2018.epfl.ch) and advertising ontact person for 15 international invited speakers from EU, USA and China

Faculty and Department Council, Univ. of Pisa STUDENT REPRESENTATIVE

Sep 2014 - Sep 2016

Pisa, Italy

. Delegate of Physics students in the faculty & dept. council (3 representatives for 400 students)

· Proposed and implemented a restructuring of 3rd year courses, mediating between professors and students

Languages_

English (fluent), French (fluent), Russian (native)

JULY, 2020 ALBERTO STAWARSKI - CURRICULUM VITAE

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Catherine Brust



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Morges, Switzerland



French

Catherine **BRUST**



Research scientist in microelectronics

Highly skilled, result-oriented research scientist with a solid background in physics, applied mathematics, microelectronics and advanced microfabrication techniques. Strong analytical and problem solving skills, hard-working, motivated and eager to transfer academic knowledge to industrial applications

Professional experience

- 2017 Pres. PowerLab, École Polytechnique Féderale de Lausanne (EPFL), Switzerland, PhD. 4 years. "Hetrostructure design and field management in III-N HEM electronic der
 - Developed novel heterostrutures and device architectures for energy-efficient and cost-effectives. GaN based power electronics improving twice the performance of state-of-art GaN power HEN.
 - Fabricated and characterized micro electronic devices using cutting-edge clean room fabrication techniques (Ebeam and optical lithography, Etching, Thin film deposition, SEM, FIB, etc)
 - Automated electrical measurements using <u>Labview reducina</u> measurement time by factor of ten
 - Developed advanced <u>cryo Hall measurement</u> methods for nanowire-based devices
 - Performed an extensive analytical and numerical optimization of heterostructures and devices using Silvaco ATLAS, Matlab and COMSOL paving the way to ultimate device optimization within the shortest possible time
- 2016 2017 Mixed Unit CNRS-Thalès / Irradiated Solids Laboratory (LSI), École Polytechnique France, Full-time Intern, 8 months, "Electronic transport in magnetic semiconductor junctions"
 - Optimized the simulation code <u>reducing</u> the calculation <u>time from hours to seconds</u>
 - Designed the experiment and performed the <u>clean room</u> fabrication
 - Experimentally demonstrated a new type of asymmetric spin transport predicted by my simulations
- 2016 2017 Condensed Matter Physics Laboratory (PMC), École Polytechnique, France, Part-time Intern, 3 months, "Efficiency droop in LEDs"
 - Developed <u>Matlab</u> code for optimization of III—N LED efficiency in disordered junctions
- 2012 2013 St. Petersburg State University, Departement of Applied Mathematics, Russia. Part-time Assistant researcher, "Haar wavelets applied to 1D signal processing"
 - Improved the convergence speed estimation for signal approximations by Haar wavelets

Education

- 2017 Pres. École Polytechnique Fédérale de Lausanne (EPFL), Switzerland, PhD, 4 years
- 2016 2017 Pierre and Marie Curie University (UPMC), France, Master "Material Science and Nano-Objects", 1 year
- 2013 2017 École Polytechnique, France, Ingénieur Polytechnicien, 4 years
- 2009 2013 St. Petersburg State University, Russia, Applied Mathematics, 3.5 years

Competences

Clean room fabrication High-electron mobility heterostructures Advanced microfabrication Electrical device characterization GaN power electronics Advanced Hall measurements Semiconductor physics Small signal electrical measurements Optoelectronics Cryogenic measurements III-N and III-V semiconductors Semiconductor device simulation

Power devices design Heterostructure design Measurement automation Data processing automation Programming Software development

"Before;" what would you change?

"After:" what do you think, now?

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Catherine Brust



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- Advanced microfabrication (Clean room)
- Fabrication process development
- PECVD, LPCVD, ALD, e-beam evaporation
- E-beam and photo lithography
- Semiconductor device characterization

Education

- 2017 Pres. Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland, PhD, 4 years Pierre and Marie Curie University (UPMC), France, 2016 - 2017 Master "Material Science and Nano-Objects", 1 year
- École Polytechnique (X), Palaiseau, France, Ingénieur Polytechnicien, 4 years 2013 - 2017
- 2009 2013 St. Petersburg State University, Russia, Applied Mathematics, 3.5 years

Core experience

2017 - Pres. PowerLab, École Polytechnique Féderale de Lausanne (EPFL), Switzerland, PhD. 4 years. "Hetrostructure design and field management in III-N HEM electronic devices"

- Developed novel heterostrutures and device architectures for energy-efficient and cost-effective GaN based power electronics improving twice the performance of state-of-art GaN power HEMTs
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- Optimized the simulation code reducing the calculation time from hours to seconds
- · Designed the experiment and performed the clean room fabrication
- · Experimentally demonstrated a new type of asymmetric spin transport

Save into "Read Mode," sans bookmarks, ideally at 67-75%



Basics for Word:

http://blog.gilbertconsulting.com/2009/08/how-to-force-pdf-to-open-at-particular.html

For Mac users:

https://www.youtube.com/watch?v=OSiDcIFH0KU

Using LateX:

https://online2pdf.com/convert-tex-to-pdf

Make it as inviting and "reader-friendly" as possible. Remember: you only get one shot at making the best possible impression!

STEPHEN FISCHER

stephen.fischer@sustainable-outreach.com ++41/79 459 5293 - Skype: saffischer Chemin de la mine, 1 - 1261 Longirod, Vaud





Objective: to contribute my professional career change management, training analysis & pedagogical expertise in providing custom-made Learning and Development solutions and professional development options in a multicultural environment focusing on lifelong success.

Staff Trainer & Career Counselor, Swiss Federal Institute of Technology,
Lausanne (EPFL) MSc, PhD/Postdoc/Scientific Staff training, individual
counseling for students & Alumni. Design and delivery of Professional Development workshops & moderation of industry roundtables. Needs analysis + course design and delivery in FR & EN. "Live online teaching" solutions + traditional in-class delivery. Learner-centered methodology, adapted by level and cohort: orientation and career planning, networking, public speaking, job market realities, transferable skills for researchers, etc. Individual counseling at all levels, staff & students.
Career Development Specialist, Longirod, Switzerland Enrollment management & market studies for private school groups; individual and team coaching, CV and profile advice, career counseling.
Career Services Manager, Ecole hôtelière de Lausanne, Switzerland Led team of 3.2-4.9 FTE's; established professional development programs for Diploma, BSc and MHA/EMBA. Administration of 1200 internships in 50 countries per year, organized career forums, workshops, Alumni career support.
Career Services Advisor, Ecole hôtelière de Lausanne, Switzerland Launched "Working Lunch" series, Career Club, drop-in & counseling options

ADDITIONAL EXPERIENCE

2005-2006

Interim Director, Les Elfes International, Verbier, Switzerland

Six month "turn-around" mandate upon previous director's abrupt departure: re-established program for international school tours, saved 20% overall budget,

prepared assistant to assume position when mandate ended.

Vice-President, Global Education Services (Europe), Glion, Switzerland

Tour leader, agent relations in India, Eastern Europe and Nepal; student advising at fairs and seminars for programs in UK, Ireland and USA.

2004-2005 Director, Enrollment Management Department, César Ritz Colleges, Le Bouveret

Led team of 11 on project mandate to shift from recruitment to strategic EMD; personally recruited 70 students at diploma, degree and MBA level; team recruited 400-plus. Hand-over to colleague to institute long-term aspects

successful. Instituted "Career Advancement Program."



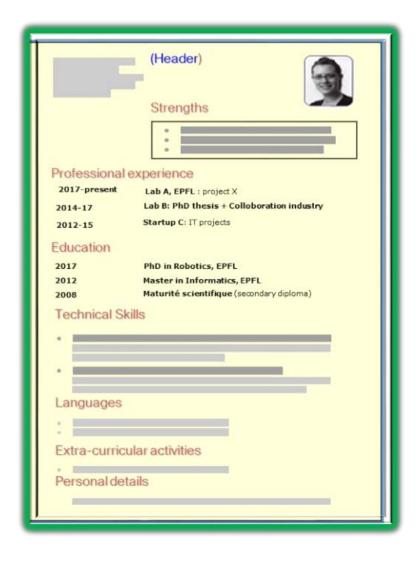
So—this all seems unnecessarily complicated, but if you want the recruiter to see your document in finished form, without all the tabs and toolbars open, you'll need some patience. I started by following the tips about setting "Initial View" for presentation:

https://helpx.adobe.com/acrobat/11/using/setting-pdfs-presentation.html#define_an_initial_view and https://www.uab.edu/vsrc/images/manuals/How_to_create_a_read_only_PDF.pdf

But then I still had to "right click" to close toolbars and navigation panes, but luckily as I closed, I was asked if I wanted to "Save changes," and hit "yes," and (finally!) when it reopened, this is what I got... Try it, as a courtesy to your readers!

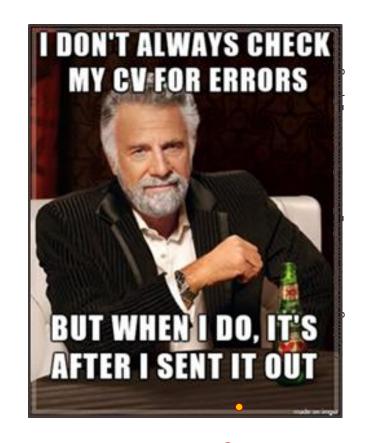
ing an effective CV_Forum Skills Week_Spring 2023

CV takeaways



CV Highlights:

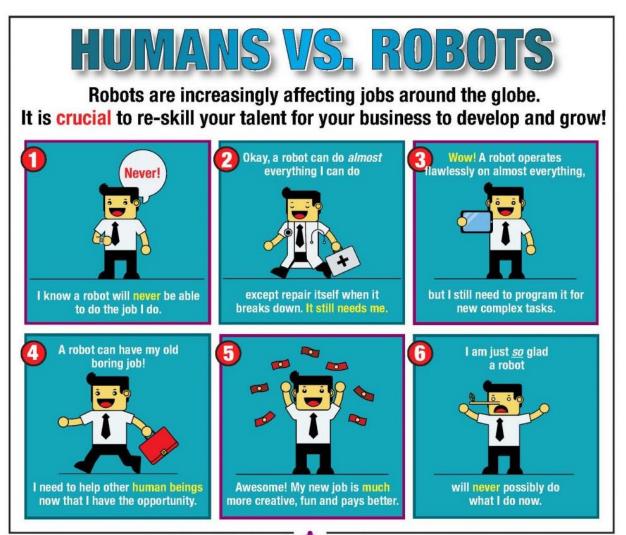
- 1. Its job is to open the door to the interview room. Without an effective CV
- 2. The top is super-critical, as the initial read is
 - < 60 sec's, sometimes 6!
- 3. CV = chapter headings of your story, not all of it.
 - 4. Put a positive spin on everything.
- 5. Write for generalists, hope for other techies!
- 6. Leaving out personal details may backfire.
 - 7. Yes, interests do matter.
- 8. No one-pagers at your level!







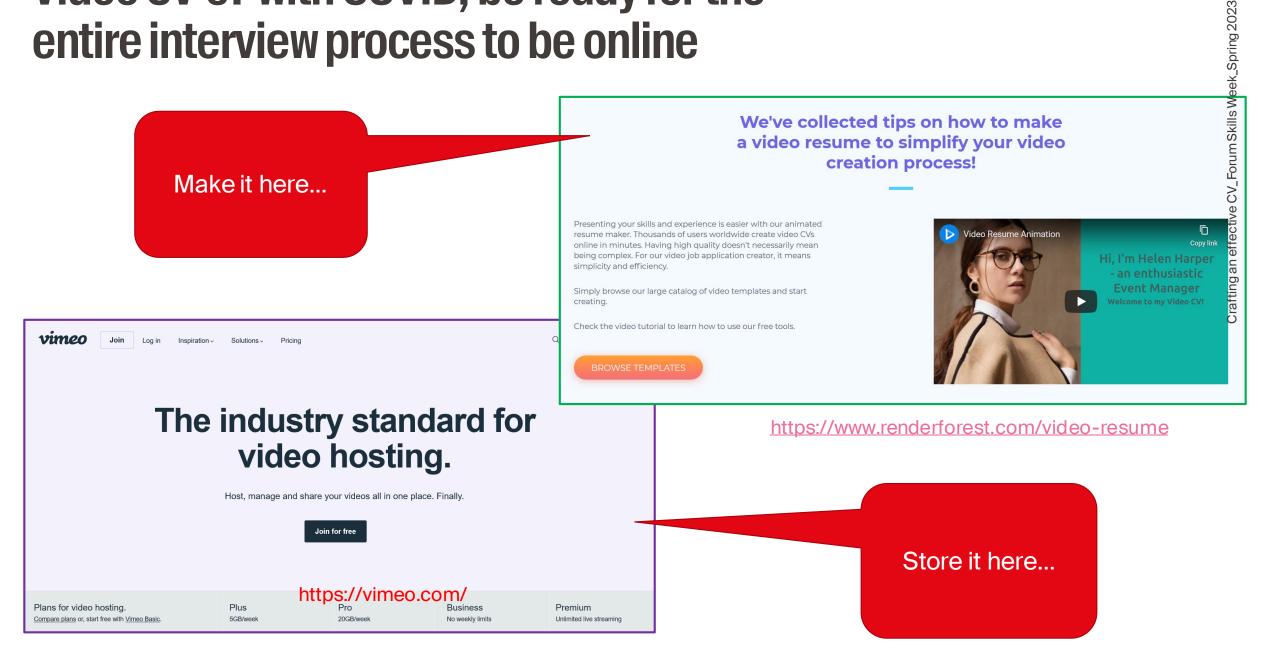
small piece of the job search puzzle, eh?!



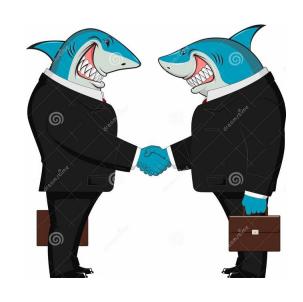
Two-step tango: good CV's incite interest in your LinkedIn, while your letter...that's another story altogether...

LinkedIn session coming soon (check our website)

Video CV's? with COVID, be ready for the entire interview process to be online



Shake it, don't break it





Get customized business cards rapidly and affordably:

- Online Printers: 250 in 24 hours for 35-43 CHF, plus postage; https://fr.onlineprinters.ch/
- VistaPrint: 500 cards for 7.90-22.90 CHF + rapid delivery 19.90 CHF, 3 days; (standard 9.90 for 5 days): https://www.vistaprint.ch
- M-Print (Migros): 100 cards in 48 hours, 20 CHF for standard designs; order/pick up in person; nearest in Nyon: https://www.migrosprintshop.ch/succursales/nyon-la-combe/

FORUM EPFL 2023 - Who are we?

The biggest campus recruitment fair in Europe:

- 200 companies
- 120 Startup's
- 8 NGO's and IGO's
- 2,400 registered students

Take advantage of events organized throughout the year to help you prepare for your professional career!

Skills Week 1:

- 31 March CV Photo Session (free)
- 3-6 April CV Group Correction in person and/or on Zoom

Details to be announced on website and sent to today's participants.

Key dates:

- 2 6 October Skills Week 2
- 9 13 October Forum Swisstech Convention Center



REGISTER NOW!





A certifiably sustainable career event!

Full program and list of companies: https://www.forum-epfl.ch/en/

Time for timely feedback



- Do you have "actionable information" to revisit your CV in order to push your "value proposition" forward to prospective employers?
- Are you glad you dedicated the time to this session?
- Any additional comments, or descriptions of technical problems you may have experienced, please write me directly at: stephen.fischer@epfl.ch
- Now, to the Q&A...which we'll continue informally at the apéro, too!

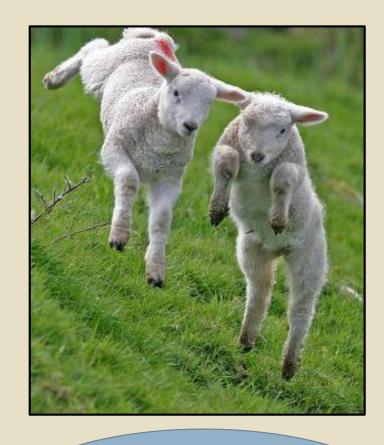
Happy Spring Time, everyone!

- ✓ Company presentations, career counseling, Industry RoundTables & future workshops plus our new "EPFLGet Hired" job platform: https://epflcareer.ch/en/
- ✓ Podcasts to be available soon in cooperation with Forum.
- ✓ These slides in .pdf will be posted on Forum website by next week!
- "CV Group Correction" sessions, week of 3-6 April 2023 (online and on campus) For those physically and virtually present today.
 See https://www.forum-epfl.ch/en/

Thank you for participating...and please join us now at the networking apéro!

in partnership with





Stay safe, cross your fingers for the Satellite to stay open, and enjoy the rare moments of sunshine!