CV

Meghdad Yazdi

August 14, 1982
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Driving license B

Work experience

- **Collabmaker (2020 – present)**
  - Back-end developer in Collabmaker Company using Django framework and PostgreSQL database.
- **Pulsed laser deposition (PLD) lab of university of Fribourg (2017 – 2018)**
  - Growing novel organic high temperature superconductors.
- **Optics laboratory of university of Fribourg (2012 – 2017)**
  - Thin film characterization using ellipsometry and reflectometry at low temperature (10K).
- **Synchrotron facilities (2012 – 2016)**
  - Ellipsometry measurement in Synchrotron Facility at Karlsruhe Institute of Technology.
- **Cleanroom facilities (2010 – 2012)**
  - Making microchannels for micro-fluids and biological application using optical lithography.
- **Optics laboratory of university of Barcelona (2010 – 2012)**
  - Detecting single carbon nanotubes transported throw a 3-inlet microchannel.

Competences

- **KEY SKILLS AND EXPERIENCES**
  - ❖ **Frontend Web Development:**
    - o CSS3 | HTML5 | jQuery | Bootstrap | Google Materialize | D3
  - ❖ **Backend Web Engineering & Frameworks:**
    - o Flask | Django | Docker | APIs | MongoDB | PostgreSQL| MySQL
  - ❖ **Programming Languages:**
    - o Python | JavaScript | C | MATLAB
  - ❖ **Version Control:**
    - o Git | Github | Jasmine | Heroku | unittest
  - ❖ **Command Lines & IDE:**
    - o AWS Cloud9 | Gitpod

My portfolio: https://meghdadyazdi.github.io/SD_Res/

My LinkedIn: https://www.linkedin.com/in/meghdadyazdi/

- **CAREER COMPETENCES**
  - Programming, Big data analysis, Simulation and optimization techniques, Synchrotron based data analysis.
  - Spectroscopy, Ellipsometry, X-ray diffraction and reflection, Infrared Optics, FTIR, Optical microscopies, XRD, XRR.
  - Ultra-High Vacuum and Cryogenic technologies, Transport measurements.
  - Clean Room facilities, Nanofabrication, Thin film growing and processing, AFM, STM, SEM, Photolithography, spin coating.

- **SOFT SKILLS** Project management, Risk analysis, Risk management, Team working, Problem solving

- **LANGUAGE SKILLS** English (fluent), Persian (native), Swedish (Learning), French (working proficiency), German (A1 telc), Spanish (Basic)

Education

2019 – 2020	*Software development*, Code institute
2017 – 2018	*Postdoc*, University of Fribourg, Switzerland
2012 – 2017	*PhD in solid state physics*, University of Fribourg, Switzerland
2010 – 2012	*MSc. Nanoscience and Nanotechnology*, University of Barcelona, Spain
2005 – 2008	*MSc. Applied Mathematics*, Tarbiat modares university, Iran
2001 – 2005	*BSc. Applied Mathematics*, AmirKabir University of technology, Iran

Publication

Physical Review B 95, no. 19 (2017): 195107.
Physical Review B 95, no. 2 (2017): 024105.
EPL (Europhysics Letters) 113, no. 4 (2016): 47005.
Journal of Physics: Condensed Matter 29, no. 49 (2017): 495601.
Physical Review B 96, no. 4 (2017): 041204.
Nature Communications 8 (2017).
Physical Review B 95, no. 5 (2017): 054512.
Applied Physics Letters 108, no. 5 (2016): 052901.
Physical Review B 93, no. 20 (2016): 205131.
Physical review letters 115, no. 2 (2015): 027003.
Physical Review B 88, no. 18 (2013): 180508.
Physical Review B 88, no. 10 (2013): 104110.

References

- **Prof. Dr. Christian Bernhard** (christian.bernhard@unifr.ch)
  University of Fribourg, Switzerland, Tel: +41 26 300 9070

- **Prof. Dr. Andrei Sirenko** (sirenko@njit.edu)
  New Jersey Institute of Technology, USA, Tel: +1 973-596-5342

- **Prof. Dr. Enric Bertran** (ebertran@ub.edu)
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