Meghdad Yazdi

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See my online resume: https://meghdadyazdi.github.io/SD_Res/

Education

2019 – present	***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

Competences

- **KEY SKILLS AND EXPERIENCES**
  - ❖ **Frontend Web Development:**
    - CSS3 | HTML5 | Bootstrap | Google Materialize | D3 | jQuery
  - ❖ **Backend Web Engineering & Frameworks:**
    - Flask | Django | APIs | MongoDB | MySQL
  - ❖ **Programming Languages:**
    - Python | JavaScript | C
  - ❖ **Version Control:**
    - Git | Github | Jasmine | Heroku | unittest
  - ❖ **Command Lines & IDE:**
    - AWS Cloud9 | Gitpod
- **CAREER COMPETENCES**
  - Programming, Big data analysis, Simulation and optimization techniques.
  - 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)

Work experience

- **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.
- **Synchrotron facilities (2012 – 2016)**
  - Ellipsometry measurement in Synchrotron Facility at Karlsruhe Institute of Technology.
- **Optics laboratory of university of Fribourg (2012 – 2017)**
  - Thin film characterization using ellipsometry and reflectometry at low temperature (10K).
- **Pulsed laser deposition (PLD) lab of university of Fribourg (2017 – 2018)**
  Growing novel organic high temperature superconductors.

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)
  University of Barcelona, Spain, Tel: +34 934021135