

Meghdad Yazdi

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Swedish Personal number: 19820814-8794

+46700189766

meghdadyazdi@yahoo.com

Vikingavägen 17B, lgh 1201, 224 76 Lund, Sweden

Driving license B



Education

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

Competences

• KEY SKILLS AND EXPERIENCES

❖ Frontend Web Development:

- CSS3 | HTML5 | jQuery | Bootstrap | Google Materialize | D3

❖ Backend Web Engineering & Frameworks:

- Flask | Django | APIs | MongoDB | MySQL

❖ Programming Languages:

- Python | JavaScript | C | MATLAB

❖ Version Control:

- Git | Github | Jasmine | Heroku | unittest

❖ Command Lines & IDE:

- AWS Cloud9 | Gitpod

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

• 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 through 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