

Khashayar Yazdanbakhsh Sorkhabi

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Academic Background:

Stevens Institute of Technology

Hoboken, New Jersey, USA

Admitted to the Ph.D. Program of Mechanical Engineering Department with full funding (56,368 \$) January 2016

Sharif University of Technology

Tehran, Iran

M. Sc. In Materials Engineering

January 2015

- Admitted as an “Elite Student” without entrance exam
- GPA: 3.94/4
- Class Rank: 1/8
- Thesis Title: Study of CNT/ZnO/PANI Nanocomposite Electrochemical Biosensors
- Awards: Elite Participant of the National Nanotechnology Competition (August 2013)
- Noticeable courses:
 - Fundamentals & Principles of nanomaterials: 19.5/20
 - Nano Biomaterials: 19/20
 - Advanced Materials Characterization: 20/20
 - Advanced Materials Thermodynamics: 18/20
 - Business Startup (optional MBA course): 18/20

Mahan Business School

Tehran, Iran

MBA(Marketing)

- Thesis Title: Personal Trainers Marketing and Personal Branding review
- GPA: 3.84/4

Sharif University of Technology

Tehran, Iran

B. Sc. In Materials Engineering, Graduated as an “Elite Student”

July 2012

- GPA: 3.54/4
- Class Rank: 8/58
- Thesis Title: Synthesis and bio-evaluation of surface modified iron oxide nanoparticles
- Research Assistant: Tissue Engineering Lab. at Pasteur Inst. Of Iran
- Teacher’s Assistant: Physical Metallurgy 1 Lab.
- Designing a complex single body Fluid Bed Furnace

Recent Academic honors:

National Ph.D. Entrance Exam

April 2017

Ranked 9th

Imperial College London

London, UK

Offer of Admission: Ph.D. in Bioengineering (sensor design)

April 2017

Professional Activities:

- **“Tanasob” magazine**

Author

Jan 2016 to present

- **“Marzdaneh” magazine**

Editor-in-chief

July 2011 to present

- **GRE & TOEFL test preparation**

July 2011 to present

- **Technical Translator: Engineering**

Academic Experience:

Surface Engineering Laboratory

Tehran, Iran

Sharif University of technology

Research Assistant

Sep 2012 to Jan 2015

- *Electrochemical biosensor's electrode fabrication*
- *Aligned CNT synthesis on Stainless Steel 304 via CVD method*
- *Nano structures and thin films synthesis of ZnO via electrodeposition*
- *Electrochemical testing of the novel nanocomposite electrodes*

Pasteur Institute of Iran

Tehran, Iran

Intern (Tissue Engineering Laboratory)

July 2011 to July 2012

- *Performing biocompatibility tests on Iron nanoparticles and Polymeric nanocomposite Scaffolds*
- *Designing a Stem Cell Bioreactor*
- *Feasibility study for manufacturing a Stem Cell Bioreactor*
- *Attending Cell Culture course taught by Professor Mohammadali Shokrgozar*

Intern (Tissue Engineering Laboratory)

Jan 2011 to July 2012

- *Synthesis of Iron Oxide nanoparticles via Co-precipitation method*
- *Coating of Iron Oxide nanoparticles*
- *Stabilizing the dispersion of the Iron Oxide nanoparticles*

Professional Qualifications:

- *Electrodeposition of metallic and non-metallic thin films*
- *Chemical Vapor Deposition: Aligned CNT production*
- *Electrochemical tests: CV, Chronoamperometry, LSV*
- *Co-precipitation of Iron Oxide Nanoparticles*
- *Nanoparticle surface modification*
- *Biocompatibility tests: MTT assay*
- *Cell Culture*
- *Experienced in Materials Characterization Methods (TEM, SEM, XRD, XRF, UV-Visible)*

Research Interests:

- *Sensors*
- *Thin Films*
- *Nanoengineered Materials*
- *Novel Electronic Devices*
- *Nanobioelectronics*
- *Lab on chip*

Publications:

- *A. Dolati, K. Yazdanbakhsh Sorkhabi, H. Fayazfar, "Non-enzymatic electrochemical Glucose biosensor, based on Polyaniline/Zinc Oxide/Well-aligned Carbon Nanotubes modified electrode". (in review)*

Interests:

- **Entrepreneurship**
- **Reading**
- **Sports**
 - *Fitness & Weight Training*
 - *Certified Fitness Trainer: International Sports Sciences Association (ISSA)*
 - *Kyokushin Karate: Brown belt*
- **Personal Development**