

HEDIYEH SAVARI

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EDUCATION

University of Tehran Master's Degree, Microelectromechanical Systems (MEMS)	<i>Sep. 2018 - Jul. 2022</i> GPA: 4/4 (18.19/20)
Iran University of Science and Technology Bachelor's Degree, Electrical and Electronics Engineering	<i>Sep. 2013 - Sep. 2018</i> GPA: 3/4 (15.02/20)
National Organization for Development of Exceptional Talents High School Diploma, Mathematics	<i>Sep. 2009 - Sep. 2013</i> GPA: 4/4 (19.66/20)

PROJECTS

Design and Fabrication of a Flexible Strain and Pressure Sensor based on Conductive Nanocomposites Master's Thesis, University of Tehran Supervisor: Alireza Nikfarjam	<i>Feb. 2021 - Jul. 2022</i>
Design and Fabrication of Superconducting, Stable, and Low-Cost Electrodes on Flexible Substrates Supervisor: Alireza Nikfarjam, University of Tehran	<i>May. 2021 - Sep. 2021</i>
Synthesis of Ultra-Thin Long Silver Nanowires (AgNWs) to Create Flexible, Transparent, and Conductive Electrodes Supervisor: Alireza Nikfarjam, University of Tehran	<i>Feb. 2019 - Feb. 2020</i>
Investigating the Structure, Properties and Behavior Prediction of GaAs Semiconductor Laser with 808(nm) Radiation Wavelength and Less than 5(nm) Bandwidth Undergraduate's Thesis, Iran University of Science and Technology Supervisor: Vahid Reza Yazdanpanah	<i>May. 2018 - Sep. 2018</i>

RESEARCH INTERESTS

Flexible Sensors	MEMS/NEMS
Wearable Sensors	Nanotechnology
Multifunction Sensors	Nanoelectronics
Sensor Fabrication	Smart Materials
Flexible electronics	Disease Diagnosis
Artificial Intelligence	Machine Learning
Remote Sensing and Image Processing	Optimization

PUBLICATION

H.Savari, A.Nikfarjam - "Design and fabrication of a flexible strain and pressure sensor based on conductive nanocomposites," 2023. *under preparation*

EXPERIENCE

Teaching Assistant at Advanced Micro and Nano Device Lab

Sep. 2021 - Sep. 2022

Lecturer: Alireza Nikfarjam, University of Tehran

Teaching new students the fundamentals of working in the cleanroom environment and instructing them in various fabrication techniques

SKILLS

Laboratory Skills

Research and Development (R&D), Device Fabrication, Microfabrication, Nanomaterial Synthesis, DC sputtering and RF sputtering, Chemical Vapor Deposition (CVD), Physical Vapor Deposition (PVD), Spin Coating, Doctor Blade Coating, Mask Design, Photolithography, Wet and Dry Etching

Characterization Skills

Scanning Electron Microscopy (SEM), Transmission Electron Microscopy (TEM), X-ray Diffraction (XRD), Scanning Tunneling Microscopy (STM), UV/Vis Spectroscopy, FTIR Spectroscopy, Raman Spectroscopy, Compound Light Microscopic Analysis

Software Skills

COMSOL, Silvaco, CorelDRAW, Photoshop, Premiere, Microsoft Office

Programming Languages and Frameworks

Python, Matlab, C++, HTML, Wolfram Mathematica, LaTeX

Soft Skills

Communication, Collaboration, Problem-solving, Critical thinking, Decision-making, Work Ethic, Creativity, Self-Motivation, Public Speaking, Active Listening, Adaptability, Cultural Sensitivity, Leadership, Conflict Management, Professional Attitude, Time Management, Teamwork, Networking

LANGUAGE SKILLS

English (Advanced and Fluent) , TOEFL iBT: Overall score: 98

10th Sep., 2023

(Reading: 24, Listening: 27, Speaking: 23, Writing: 24)

Persian (Native), **Arabic** (Upper intermediate), **German** (Beginner)

ACTIVITIES

- Deputy Head and the Documentary Writer of the Student Scientific Association of Electrical Engineering

Iran University of Science and Technology

2016-2017

- Honorary Member of the Student Scientific Association of Electrical Engineering

Iran University of Science and Technology

2015-2016

- Honorary Member of the Cultural Office of the Faculty of Electrical Engineering

Iran University of Science and Technology

2014-2015

AWARDS AND HONORS

- Ranked 2nd in the M.Sc. cohort of 2018, Microelectromechanical Systems (MEMS) Program

University of Tehran

by the time of graduation

- Tuition Fee Waiver Scholarship, Graduate Program

University of Tehran

Sep. 2018 - Jul. 2022

- Tuition Fee Waiver Scholarship, Undergraduate Program

Iran University of Science and Technology

Sep. 2013 - Sep. 2018

- **Ranked 1445th among 250,000 participants in the Iranian Nation-wide University Entrance Exam Known as Konkour for B.Sc degree in Engineering** *Sep. 2013*

- **Admitted to attend NODET (National Organization for Development of Exceptional Talents) by taking the NODET exam** *Sep. 2009*

LICENSES AND CERTIFICATIONS

- **Recent Advances in Freeform Electronics**, (offered by Yonsei University)

Coursera, Credential ID QCVZFHCKBF37

Issued May 2023

- **Programming for Everybody** (Getting Started with Python), (offered by University of Michigan)

Coursera, Credential ID GWSLB43EDL8A

Issued Mar 2023

SELECTED COURSES

Modern Physics, 18/20

Sensors and Micromachine, 19/20

Nano-materials Characterization Methods, 18.5/20

Nanobiotechnology, 18.3/20

Theory and Technology of Semiconductors, 19.25/20

Nanotechnology, 18.25/20

Special Topics in Micro- and Nano- electromechanical Systems, 18/20

HOBBIES

Chess, Hiking, Swimming, Fitness, Traveling

REFERENCES

Alireza Nikfarjam

Email Address: a.nikfarjam@ut.ac.ir

Title: Associate Professor at University of Tehran, Tehran, Tehran, Iran

Aliakbar Jalali

Email Address: drjalali@gmail.com

Titles:

Adjunct Professor at University of Maryland Baltimore County, Catonsville, Maryland, United States

Adjunct Professor at West Virginia University, Morgantown, West Virginia, United States

Professor at Iran University of Science and Technology, Tehran, Tehran, Iran

Vahid Reza Yazdanpanah

Email Address: Vahpap@yahoo.com

Title: R&D Scientist and Process Engineer at Santa Rosa, California, United States

Former Assistant Professor at Iran University of Science and Technology

Hassan Hajghassem

Email Address: hajghassem@ut.ac.ir

Title: Associate Professor at University of Tehran, Tehran, Tehran, Iran

Javad Koohsorkhi

Email Address: koohsorkhi@ut.ac.ir

Title: Associate Professor at University of Tehran, Tehran, Tehran, Iran

Reza Askari Moghadam

Email Address: r.askari@ut.ac.ir

Title: Researcher at Université Paris-Est Créteil (UPEC), Créteil, Île-de-France, France

Former Associate Professor at University of Tehran, Tehran, Tehran, Iran