



## Curriculum Vitae

# Amin Nasrollah

Tehran, Iran



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### Education

- ✳ **M.Sc., Mechanical Engineering** 2021-Present Score: 17.00 From 20  
Iran University of Science and Technology (IUST), Tehran, Iran.
  - Thesis: N/A
  - Supervisor: Dr. Esmaeel Khanmirza

- ✳ **B.Sc., Mechanical Engineering** 2016-2021 Score: 17.87 From 20  
Science and Research Branch, Azad University (SRBIU) Tehran, Iran.
  - Thesis: "Numerical, FEM and Experimental Analysis of Ionic-Polymer Metal Composites"
  - Supervisor: Dr. Hamid Soleimanimehr

### Publications

#### JOURNALS

- ✳ A novel experimental static deflection equation for specific cantilever beam made of ionic polymer–metal composite, Nasrollah, A., Farnia, P., HamidGorgani, S. & Ghanavi, J. (2022). *Biomedical and Biotechnology Research Journal (BBRJ)*, 6(3), 429–437.
- ✳ Nafion-Based Ionic-Polymer-Metal Composites: Displacement Rate Analysis by Changing Electrode Properties, Nasrollah, A., Soleimanimehr, H., & Khazeni, S. (2021). *Advanced Journal of Science and Engineering*, 2(1), 51–58.
- ✳ Finite element analysis assisted improvement of ionic polymer metal composite efficiency for micropump of 3D bioprinter, Nasrollah, A., Soleimanimehr, H., & Javangoroh, S. (2021). *Advanced Journal of Science and Engineering*, 2(1), 23–30.
- ✳ Finite element analysis assisted improvement of ionic polymer metal composite efficiency for micropump of 3D bioprinter, Nasrollah, A., Soleimanimehr, H., & Nikkhou, M. H. (2022). *Advanced Journal of Science and Engineering*, 2(1), 49–54.

More Papers are available on [Google Scholar](#). (H-Index: 3 – Citation: 21)

#### PATENTS

- ✳ Autonomous Ionic-Polymer-Metal Composite Thermometer, Nasrollah, A., Soleimanimehr, H., & HamidGorgani, S. (2022). *Iran Patent Center*, IR107076.

### Awards, Honors & Memberships

- ✳ Teacher Assistantship offer from University of Texas in San Antonio, Receiving Partly Scholarship Admission for M.Sc. of Mechanical Engineering, UTSA, Texas, USA 2021
- ✳ Member of American Society of Mechanical Engineers (ASME), USA 2021-Present
- ✳ Member of American Society for Engineering Education (ASEE), USA 2021-Present
- ✳ Member of Iranian Society of Mechanical Engineers (ISME), Iran 2020-Present
- ✳ Among top 5% top Student of Science and Research Branch, Azad University (SRBIU) Receiving Partly Scholarship Admission for B.Sc. of Mechanical Engineering, Tehran, Iran 2017-2021.

- ★ Ranked 1<sup>st</sup> in Student during academic years, Class of 2016, School of Mechanical Engineering, SRBIAU, Tehran, Iran 2016-2021
- ★ Ranked 2<sup>nd</sup> in Mechanical Engineering Design National Competition of Amirkabir University of Tehran, Tehran Polytechnic, 3<sup>rd</sup> National Festival of Cadafzar, Iran 2018
- ★ National Fellowship and Scholarship for M.Sc. Mechanical Engineering (Applied Design), Iran University of Science and Technology (IUST), Tehran, Iran 2021

## ◆ Experiences



### TEACHING ASSISTANT

- Leading Tutorials and Course Assistant: Azad University of Central Tehran Branch of Azad University, IAUCTB, Tehran, Iran, 2017-2019 and Science and Research Branch of Islamic Azad University 2019-2022.
- ✓ Solar Systems, Fuel Cells and Energy Laboratory Assistant 2020 - 2022
- ✓ Research Team Supervisor 2020 - 2022
- ✓ Automatic Control 2019
- ✓ Mechanic of Materials 2017 - 2019
- ✓ Mathematics 2018
- ✓ Thermodynamics 2017



### PROJECT

- Bioprinters for Tissue Engineering 2022 - Present
- Lamp failure detection system for non-ECU-based cars 2019 - 2020
- Manufacturing a high efficiency ionic-polymer-metal composites 2019 - Present
- Economical Automatic Hand Sanitizer for Covid-19 2020
- 20 kV wire failure detection system, 2020
- Mini CNC for cutting woods, Using laser and spindle motor 2019
- 3D Printers for rapid prototyping 2019 - Present



### PART-TIME TEACHING

- Teaching C and Python Programming Language, as a Private Tutor 2020
- Teaching COMSOL Multiphysics, as a Private Tutor 2020
- Teaching Catia Software, as a Private Tutor 2018
- Teaching Arduino, as a Private Tutor 2018
- Teaching Physics and Mathematics of High school, Tehran, Iran 2016 - 2017



### Full-TIME JOB

- Researcher, WHO Collaborating Center for Tuberculosis and Tobacco Control, National Research Institute of Tuberculosis and Lung Diseases, and Shahid Beheshti University of Medical Science 2022 - Present



### PART-TIME JOB

- Mechanical Engineer, A B Sangari Et sons Ltd 2021 - 2022
- Senior Mechanical Engineer, Atron Electronic Systems 2021
- Leader of Dr. Soleimanimehr Engineering Team 2019 - 2022
- Mechanic Engineer Designer, Imen Sazan Khodro Andisheh 2018 - 2021
- Intern, Faradic Afzar Gostar 2018
- Mechanic Engineer Designer, Vira Sanaat 2018
- Mechanic Engineer Designer, Cadafzar 2018

## ◆ Skills

- |                         |  |
|-------------------------|--|
| ➤ CATIA and Solid Works | Complex 3D modeling, and drawing                         |
| ➤ Altium Designer       | Complex electronic circuit designing                     |
| ➤ COMSOL Multiphysics   | Computer Aided Engineering                               |
| ➤ MATLAB & Simulink     | Using MATLAB for simulating simple mathematical models   |
| ➤ AVR Microcontrollers  | Using C with Atmel studio to program AVR microprocessors |
| ➤ Python and C          | Programming different types of programs                  |
| ➤ Arduino               | Open-source microcontroller program compiler             |
| ➤ FPGA & Logic Circuits | Field-Programable-Gate Arrays                            |
| ➤ ROS                   | Robot Operating System                                   |
| ➤ Machine Learning      | Using Python to Create ML Assissted Systems              |
| ➤ PhotoShop & CorelDraw | To Draw Vectors and Figures for Papers                   |
| ➤ LATEX                 | To Write Papers Easily using Tex                         |

## ◆ Languages

- |           |   |
|-----------|---|
| ❖ English | Academic IELTS 7.0 (Listening: 8.0 - Speaking: 7.5 - Reading: 6.5 - Writing: 6.0) |
| ❖ Persian | Native Speaker  |

[Dr. Jalaledin Ghanavi](#)

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Medical Sciences, SBMU*  
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Technology, IUST*  
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