

Amir Masoud Nouki

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Objective

A dedicated M.Sc. student in Power Electronics at Shahed University, with a B.Sc. in Power Systems from the University of Shahrood, seeking a role in power electronics to specialize in converters. With expertise in power systems and transmission, I am eager to enhance my skills in PCB design using Altium and explore the integration of artificial intelligence to innovate in power electronics, driven by a passion for solving complex technical challenges.

Interests

- Power Electronics: Developing high-efficiency converters for renewable energy systems, leveraging AI to enhance microgrid control and stability
- Power Systems: Protection of energy systems, high-voltage transmission lines
- Control Engineering: PLC programming, industrial automation

Education

M.Sc. in Power Electronics, Shahed University Tehran, Iran

Sep 2024 – Present

- Advisor: Prof. Jalal Nazarzadeh

B.Sc. in Power Systems, University of Shahrood Shahrood, Iran

Sep 2019 – Jun 2024

- Thesis: “Siemens Distance Protection Relay Algorithm in Transmission Lines”
- Advisor: Dr. Damchi
- GPA: 2.9/4
- GPA of Last 1 years: 3.1/4

**Diploma in Mathematics and Physics,
Imam Hassan Exemplary School,** Mashhad, Iran

Sep 2016 – May 2019

- GPA: 3.6/4

Teaching Experience

Laboratory Instructor, Shahed University, Tehran, Iran

Spring 2025 – Present

- **Electrical Machines II**
- Conducted lab sessions and assisted students with experiments on electrical machines

Teaching Assistant, University of Shahrood, Shahrood, Iran

- **Microprocessors**

Fall 2023

- Provided exercise solutions and guidance to students on microprocessor concepts

- **Logical Circuits**

Spring 2023

- Assisted in solving exercises and supporting students in understanding logical circuits

Research Projects

Power Oscillation Detection in Power Systems

Khorasan Regional Electricity Co. Mashhad, Iran

Sep 2023

- Investigated and analyzed power oscillation detection techniques in power networks

PLC Programming Project, Mahya Sanat Co. Mashhad, Iran

Sep 2022

- Performed beginner-level programming for Siemens S7-400 PLC

Volunteer Experience

- Conference Organizer, International Conference on Protection and Automation, University of Shahrood** Shahrood, Iran Jan 2024
- Assisted in article review and secretariat duties for the 18th International Conference
- Conference Organizer, International Conference on Renewable Energies, University of Shahrood,** Shahrood, Iran Feb 2023
- Contributed to media and secretariat tasks for the 10th Iran Renewable Energy Conference
- Exhibitor, International Automation Exhibition, Mahya Sanat Co., Mashhad, Iran** Sep 2022
- Managed a booth showcasing industrial automation, CNC, and inverter products
- Electrical Engineering Student Association, University of Shahrood, Shahrood, Iran** Oct 2021 – Sep 2023
- Participated in media activities for the association

Awards and Honors

- Best Association Award, Electrical Engineering Student Association, University of Shahrood** Shahrood, Iran 2022-2023
- Recognized as the best student association at University of Shahrood for outstanding contributions and activities

Work Experience

- Power Systems Intern, Khorasan Regional Electricity Co., Mashhad, Iran** Summer 2023
- Gained knowledge of relays, protection systems, and high-voltage substations
- Assisted in map reading and supervised relay testing
- Developed understanding of high-voltage transmission lines
- Industrial Automation Intern, Mahya Sanat Co., Tehran, Iran** Summer 2021 – Summer 2022
- Gained familiarity with industrial automation and CNC systems
- Learned about various PLC and HMI brands
- Acquired experience in accounting and sales

Skills

Applications and Scientific Tools:

- MATLAB, Proteus, Code Vision AVR, Altium Designer, FEMM, EMTP, Maxwell, DIgSILENT, AutoCAD

Programming Languages:

- C, Matlab, Python

Operating System:

- Microsoft Windows , Linux

Typesetting:

- Microsoft Word, LATEX

Languages

Persian: Native Language

English: Basic speaking and listening, Elementary writing and reading - improving through academic and professional exposure

Hobbies

- Reading books
- Listening to music
- Camping and hanging out with friends
- Creative writing
- Sharing my experiences in a blog
- Walking and climbing mountains