

# Amir Masoud Nouki

Shahed University, Tehran, Iran

Email: [Amirmasoud8004@gmail.com](mailto:Amirmasoud8004@gmail.com)

Cell Phone: (+98)9150685949

LinkedIn: [Amirmasoud Nouki](#)

GitHub: [github.com/Amirmasoudnouki](https://github.com/Amirmasoudnouki)

## Interests

- Power Electronics: High-efficiency converters, renewable energy integration, AI-enhanced microgrid control
- Power Systems: Protection strategies, high-voltage transmission, grid stability
- Control Engineering: PLC programming, industrial automation

## Education

### M.Sc. in Power Electronics, Shahed University

Sep 2024 – Present

- Advisor: [Prof. Jalal Nazarzadeh](#)
- GPA: 4.0/4.0 (First Term)

### B.Sc. in Power Systems, Shahrood University of Technology

Sep 2019 – Jun 2024

- Thesis: “Siemens Distance Protection Relay Algorithm in Transmission Lines”
- Advisor: [Dr. Damchi](#)
- Last Year GPA: 3.1/4.0
- Overall GPA: 2.68/4.0

## Teaching Experience

### Laboratory Instructor, Shahed University, Tehran, Iran

#### - Electrical Machines II

Spring 2025 – Present

- Conducted lab sessions and guided students in Electrical Machines II experiments

### Teaching Assistant, Shahrood University of Technology, Shahrood, Iran

#### - Microprocessors

Fall 2023

- Provided exercise solutions and student guidance

#### - Logical Circuits

Spring 2023

- Assisted students with problem-solving and lab work

## Research Projects

### Power Oscillation Detection in Power Systems, Khorasan Regional Electricity Co.

Sep 2023

- Analyzed methods for detecting and mitigating power oscillations in transmission networks

### PLC Programming Project, Mahya Sanat Co.

Sep 2022

- Programmed Siemens S7-400 PLC for industrial automation applications

## Volunteer Experience

### Conference Organizer, International Conference on Protection and Automation, Shahrood University of Technology Shahrood, Iran

Jan 2024

- Assisted in reviewing submissions and handling conference logistics

### Conference Organizer, International Conference on Renewable Energies, Shahrood University of Technology Shahrood, Iran

Feb 2023

- Managed media coordination and technical session support

### Exhibitor, International Automation Exhibition, Mahya Sanat Co. Mashhad, Iran

Sep 2022

- Represented industrial automation products and provided technical demonstrations

### Electrical Engineering Student Association, Shahrood University of Technology

Oct 2021 - Sep 2023

- Represented industrial automation products and provided technical demonstratio

## Work Experience

**Power Systems Intern, Khorasan Regional Electricity Co.**

Summer 2023

- Assisted in relay testing, high-voltage substation analysis, and transmission system operations

**Industrial Automation Intern, Mahya Sanat Co.**

Summer 2021 – Summer 2022

- Gained hands-on experience in PLC programming (Ladder and PB), automation systems, and CNC machines

## Awards and Honors

**Best Association Award, Electrical Engineering Student Association, Shahrood University of Technology**

2022-2023

- Recognized for exceptional contributions to student engagement and activities

## Skills

**Software Tools:** MATLAB, Proteus, Altium Designer, FEMM, EMTP, Maxwell, DIGSILENT, AutoCAD, Code Vision AVR

**Programming:** C, MATLAB, Python

**Operating Systems:** Windows, Linux

**Technical Writing:** Microsoft Word, L<sup>A</sup>T<sub>E</sub>X

## Languages

**Persian:** Native

**English:** Intermediate (improving through academic exposure)

## Hobbies

- Reading technical books
- Listening to music

- Writing technical blogs
- Outdoor activities (hiking, camping)