

ALIREZA PAHLAVANI

Electrical Engineering Student

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EDUCATION

Shahid Beheshti University

B.Sc. in Electrical Engineering

Allame Helli High School (SAMPAD)

National Organization for Development of Exceptional Talents

2023 - Present

GPA: 3.25 / 4.00

2020 - 2023

GPA: 3.97 / 4.00

RESEARCH EXPERIENCE

Undergraduate Research Assistant - Data-Driven & Safe Control

Shahid Beheshti University

Mar 2026 - Present

under Dr. Pourgholi

1. Koopman-EDMD for Nonlinear Dynamical Systems

- Implemented Koopman-EDMD for data-driven linearization of nonlinear dynamical systems.

2. Safe Multi-Agent Coordination - DIOB-GCBF

- Developed DIOB-GCBF for collision avoidance and connectivity-preserving multi-agent control; evaluated across 600 Monte Carlo episodes.

WORK EXPERIENCE

Technical & Project Assistant

Electrical Networks Research Institute, Shahid Beheshti University

2026 - Present

- Support institute projects through technical documentation, simulation tasks, coordination, and implementation support.

EV Charging & V2G Control Engineering Intern

Fara Control Ideh Pajouhan - Knowledge-Based Company

2026 - Present

- Work on control and scheduling strategies for EV charging and bidirectional Vehicle-to-Grid (V2G) power exchange under operational and grid constraints.

Instrumentation Engineering Intern

Pishro Energy Engineering Company

Dec 2025 - Mar 2026

- Worked with P&IDs, instrument datasheets, technical documentation, and maintenance-related instrumentation activities.

Freelance Full-Stack Web Developer

Independent

2022 - Present

- Develop web applications using HTML, CSS, Bootstrap, JavaScript, Python, and Django.
- Designed and implemented the Electrical Networks Research Institute website.

Technical Writer & Editorial Contributor

IEEE Times Magazine - Company Profiles Section

2026

- Wrote and edited technical company profiles covering engineering activities, products, and industrial context.

LEADERSHIP & TEACHING

Vice President, Electrical Engineering Scientific Association

Shahid Beheshti University

Oct 2025 - Present

- Coordinate scientific, educational, and technical activities, events, and student initiatives for the association.

Undergraduate Teaching Assistant - Multiple Courses (40 Credits)

Shahid Beheshti University

Sep 2024 - Present

- Supported Engineering Mathematics (MATLAB), Mechanical Physics, Electronic Physics, Programming with Python, and English Language through tutorials, projects, and grading.

TECHNICAL SKILLS

Programming & Web: Python, C/C++, JavaScript, HTML/CSS, Bootstrap, Django **Control & Power:** Koopman-EDMD, CBFs, multi-agent control, EV charging, V2G

Simulation & Engineering: MATLAB/Simulink, COMSOL, PSpice, Multisim, Proteus, STM32CubeIDE, Altium Designer, Siemens SIMATIC/LOGO, AutoCAD

Other: Microsoft Office, Advanced English, touch typing