Alireza SAADATI

✉ alireza.sdtim@gmail.com

📅 25 years old

📱 +39 351 818 9372

Social networks

in Alireza Saadati

Skills

Programming & Development
Python
Linux
Django
PostgreSQL
Matlab
Git

Automation & Embedded Systems
LabVIEW,
CompactRIO
PLC
HMI
Vibration Analysis
Predictive Maintenance
Plecs

DevOps & Cloud
AWS
Google Cloud
Docker, Kubernetes

Networking & Monitoring
Cisco Switches & Routers
Prometheus
Zabbix
Grafana
Pfsense
Opnsense
VMware

Languages

English

Italian

Persian

Soft skills

Adaptability

Teamwork

Problem solving

Willingness to learn

Stress management

Time management

About me

My passion for technology and engineering began in middle school when I was fascinated by building LEGO **robots** and participating in **WRO** competitions. This enthusiasm led me to pursue a degree in **Electrical Engineering**, complemented by experience as a **Network engineer**, **automation engineer**, and **web developer**. Currently, I am **interning** at **Bosch** in Belgium.

Work experience

SOFTWARE ENGINEER INTERN

BOSCH, BELGIUM From July 2024 to December 2024
- **Specializes in Vibration Analysis**, **MATLAB**, **LabVIEW Integration**, and **HMI**.
- Works on **vibration analysis** using SKF devices for **predictive maintenance** and **performance optimization**.
- Develops algorithms in **MATLAB** for processing and interpreting vibration data, ensuring **precise diagnostics**.
- Integrates sensor systems through **LabVIEW** for **real-time data acquisition** and analysis.
- Focuses on enhancing **system reliability** and **efficiency**.
- Combines **hardware**, **software solutions**, and **HMI** to streamline **automation** and improve **machine health monitoring**.
- Proficient in **MATLAB**, **NI LabVIEW**, **Python**, **Programmable Logic Controller (PLC)**, **Vibration Analysis**, and **HMI**.

JUNIOR NETWORK ENGINEER

SANAY CO, . From August 2021 to October 2022
- **Specializes in network design, administration, and system optimization.**
- **Network Administration**: Expertise in network switches, wireless networking, VPN, Unix, FreeBSD, OPNsense, and pfSense.
- **Linux System Administration**: Proficient in Linux Server, Ubuntu, Debian, Linux, and Secure Shell (SSH).
- **Monitoring & Troubleshooting**: Skilled in using Grafana, Zabbix, Prometheus, and other network monitoring tools.
- **Virtualization & Containers**: Proficient in Docker containerization and orchestrating Kubernetes applications (clusters, nodes, pods). Skilled in designing microservices architecture and managing container lifecycles.
- **Kubernetes Skills**: Experienced in Kubernetes cluster management, including node setup, autoscaling, load balancing, and deploying with Helm charts and YAML.
- **VoIP & Communication**: Experience with Voice over IP (VoIP) systems.
- **Programming & Scripting**: Proficient in Python.
- **Additional skills** include: Network Monitoring Tools, Linux System Administration, Wireless Networking, pfSense, and OPNsense.

IT TECHNICAL SUPPORT

IRANTRANSFO CO, . From May 2021 to August 2021
- **Network Monitoring**: Utilized **Grafana**, **Zabbix**, and **Prometheus** for real-time performance monitoring.
- **Computer Assembly**: Assembled, configured, and installed **computer hardware** for departments.
- **Troubleshooting**: Provided technical support for **hardware**, **software**, and **network issues**.

DJANGO DEVELOPER INTERN

BAHIN SAYAR CO, . From September 2018 to December 2018
Key Learnings: Gained expertise in the **Django framework** (architecture, models, views, templates), **RESTful API development**, **PostgreSQL**, front-end technologies (**HTML, CSS, JavaScript**), and version control with **GitHub**

Education

MSc IN ELECTRICAL ENGINEERING

UNIVERSITY OF PAVIA, ITALY From October 2022 to December 2024
Master's Program: Developed expertise in **system simulation**, **MATLAB**, and **PLECS** for system optimization and converter design. Current thesis focuses on **vibration analysis** with **deep learning**, expanding skills in **electrical engineering** and emerging technologies

MSc IN COMPUTER ENGINEERING

UNIVERSITY OF LEON, SPAIN From February 2024 to June 2024
Erasmus Program: Explored **deep learning** and worked on **Python projects** to enhance skills.

BSc IN ELECTRICAL ENGINEERING

UNIVERSITY OF ZANJAN, IRAN From February 2018 to June 2022
Developed expertise in **electrical systems**, **circuit design**, and **automation technologies**, with hands-on projects like an **Arduino-based alert system**. Proficient in **Arduino**, **MATLAB**, and **Python**.