# Sobhan Heravian

سبحان هرویان

University Lecturer
PhD Candidate, Electronics Engineering
Network & VoIP Infrastructure Engineer

## PROFILE

I work where electronics, networks and people meet. I teach microprocessors and digital systems at university, build network and VoIP systems for a living, and I'm about to defend my PhD in electronics.

## EXPERIENCE

2025 - Present
### University Lecturer
Islamic Azad University, North Tehran & Pardis branches

- Teach Microprocessors, Logic Circuits, the Digital Systems and Logic Circuits laboratories, and Rehabilitation Principles and Devices for biomedical engineering students.
- Run laboratory sessions that take students from circuit theory to working hardware.
- Teach blended classes on Adobe Connect and Moodle.

Oct 2020 - Present
### Network & VoIP Infrastructure Development Engineer
Torfeh Ertebat Mordad, Tehran

- Design and maintain enterprise networks on MikroTik and Cisco routers, including traffic monitoring and firewall rules.
- Deploy and troubleshoot VoIP services (SIP/SCCP) for company-wide communication.
- Run Linux (Ubuntu) servers and Docker containers with CI/CD deployments, and automate routine administration.
- Manage PostgreSQL databases.

Sep 2017 - Present
### University Lecturer
Imam Reza International University, Mashhad

- Teach Computer Programming (C/C++), Microprocessors and its laboratory, Digital Systems and its laboratory, Logic Circuits, and Computer Basics & Academic Writing for graduate students.
- Supervise hands-on lab projects with EDA and simulation tools.

Jan 2017 - Aug 2020
### E-Learning Infrastructure Supervisor & IT Support
Imam Reza International University, Mashhad

- Ran the university's Moodle and Adobe Connect platforms for online classes and seminars.
- Supported faculty and students with technical problems.

## CONTACT


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## EDUCATION

**PhD** 2019 – present
**Electronics Engineering**
Islamic Azad University, South Tehran Branch
Thesis defense stage

**MSc** 2016 – 2018
**Mechatronics Engineering, Industrial Automation**
Imam Reza International University

**BSc** 2012 – 2016
**Biomedical Engineering, Bioelectric**
Imam Reza International University

## SKILLS

**Electronics Design**
AVR, ARM, Arduino
FPGA (VHDL, Verilog)
Altium Designer, Proteus, PSpice

**Mechatronics & Control**
PLC (Siemens, Delta)
HMI
Pneumatics & hydraulics
Machine vision

**Networking & Infrastructure**
Cisco networking & wireless
MikroTik routing & wireless
HPE servers & storage
Mimosa point-to-point links
Ubiquiti UniFi Wi-Fi

Dec 2017 - Jan 2020

### Mechatronics & Automation Engineer

Independent Projects, Mashhad

- Designed and built smart-home and industrial automation projects.
- Developed embedded systems with microcontrollers, sensor networks and custom PCBs.

Sep 2017 - Mar 2019

### Head of R&D, Alpha Tavan Working Group

State Welfare Organization of Iran, Mashhad

- Led the Alpha Tavan R&D group, funded and supported by the State Welfare Organization of Khorasan Razavi.
- Directed the design of IoT-based rehabilitation technology for people with spinal cord injuries.
- Developed the eye-tracking smart-home control system, in collaboration with Imam Reza International University.

Jul 2017 - Sep 2017

### Director of R&D

Sina Ebtekar, Mashhad

- Led the R&D unit for medical and laboratory equipment.
- Designed precision data loggers that monitor temperature while blood and donated organs are transported.
- Researched and reverse-engineered refrigerated centrifuges.

Jul 2015 - Nov 2016

### Audio-Visual Director

Parto Art, Mashhad

- Managed audio-visual equipment and sound engineering for multimedia and art productions.

Aug 2013 - Jul 2015

### Medical Equipment Repair & Supply (freelance)

MyOneMed

- Repaired and maintained medical and dental equipment for clinics.
- Bought and sold medical equipment and clinic consumables.

**IT Services**

VoIP (Asterisk, Cisco, Issabel)

Windows Server, Active Directory, Exchange

Linux servers & Docker

Virtualization (ESXi, vCenter, Proxmox)

Network security & firewalls

Adobe Connect & Moodle

**Programming**

C, C++, C# | Python | PHP | MATLAB | SQL

**Medical & Dental Equipment**

Medical equipment repair & maintenance

Dental equipment servicing

Clinic equipment & consumables supply

## PUBLICATION

### Implementation of Eye Tracking in an IoT-Based Smart Home for Spinal Cord Injury Patients

**Sobhan Heravian**, Nima Nouri, Mojtaba Behnam Taghadosi, Seyed Mohammad Hossein Seyedkashi

Modern Care Journal, vol. 16, no. 4, 2019 · DOI 10.5812/modernc.96107