

# YASER KHADEMI

## ELECTRICAL ENGINEER

### CONTACT

- ✉ [yaserkhademy74@gmail.com](mailto:yaserkhademy74@gmail.com)
- 🌐 <https://yaserk95.github.io/>
- 🌐 [www.linkedin.com/in/yaser-khademi](https://www.linkedin.com/in/yaser-khademi)

### TECHNICAL SKILLS

- Microcontrollers (STM32, AVR, esp32)
- C, C++, Python, MATLAB, .NET Core (C#)
- Serial Protocols (SPI, I2C, UART etc.)
- System Design and Modeling (PID controllers)
- Digital Signal Processing (A/D digital filters)
- Wireless Networks (WIFI, Bluetooth)
- Lan Networks (TCP, UDP)
- Sensor Interfacing (e.g., accelerometer, temp., motion, weight, and more)
- Circuit Prototyping & Design, Board Bring-Up, PCBs, BOMs
- Lab Equipment (e.g., oscilloscopes, soldering)
- Basic Skills in Hardware Description Languages (VHDL, Verilog)
- Basic Skills in soc's (ZYNQ)

### PROFESSIONAL SKILLS

- Time Management
- Project Management
- Problem Solving
- Adaptability

### LANGUAGES

English

Farsi

### PROFILE

I'm Yaser Khademi, an experienced professional specialising in digital electronics and embedded systems. With a background in electronic engineering and photonics, I bring a strong educational foundation and practical expertise to my work. I have successfully completed numerous small and large-scale projects, showcasing my ability to solve complex problems in this field. I thrive on challenges and approach them with enthusiasm and dedication.

### WORK EXPERIENCE

#### Embedded electronics Engineer

MAPVA Industrial GROUP 2021-Present

While I was working in this company, I did various projects, some of which were the development of the company's devices, and some of them were the design and implementation of new devices. I learned many skills during these projects. The projects I did are as follows:

- Design and development of pulse oximeter device
- Design and development of Magnetic Flux Leakage (MFL)
- Design and implement of RFID Access Control System
- Development of acoustic emission device
- Design and development of crawler robot

#### Freelancer

2017-Present

While studying in university, I started doing small projects and later started doing bigger projects.

Projects I did as a freelancer:

- Design and implement of Smart Furnace Controller
- Design and implement of IR instrumentation amplifier for accelerometer device
- Design and implement Bird habitation device
- Design and implement Smart irrigation system
- Design and implement Low noise power supply board design

# YASER KHADEMI

ELECTRICAL ENGINEER

## CONTACT

✉ [yaserkhademy74@gmail.com](mailto:yaserkhademy74@gmail.com)

🌐 <https://yaserk95.github.io/>

🌐 [www.linkedin.com/in/yaser-khademi](https://www.linkedin.com/in/yaser-khademi)

## SOFTWARES

- MATLAB
- MS Visual Studio
- Stm32cube
- Keil
- Altium Designer
- Vivado
- ISE Xilinx
- Arduino IDE

## EDUCATION

### Master of Science in Photonic Engineering

Amir Kabir University of Technology 2019-2021

**Thesis:** Mathematical Modeling of the LIGO Amplifier  
(Laser Interferometer Gravitational-Wave Observatory)

**GPA:** 4.16/5

### Bachelor of Science in Electrical Engineering

Hakim SABZEVARI university 2014-2019

**Thesis:** Locating objects in closed spaces using the RSSI  
index (indoor GPS)

**GPA:** 4.16/5