Saeid Haghighipour

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EDUCATION

- **Sharif University of Technology** — Tehran, Iran
  Master of Science in Electrical and Electronics — *Sep. 2020 – Aug. 2023*

- **University of Tehran** — Tehran, Iran
  Bachelor of Engineering in Electrical and Electronics — *Sep. 2016 – Aug. 2020*

EXPERIENCE

- **Advanced Electronics Group** — Tehran, Iran
  Embedded Linux Engineer — *Mar 2023 - Present*

- **Amin Nano Systems** — Tehran, Iran
  Embedded Software Engineer — *Mar 2021 - Feb 2023*

- **Samaneh Payesh Ghodrat** — Tehran, Iran
  Electronics Technician — *Mar 2018 - Jan 2020*

- **University of Tehran** — Tehran, Iran
  Embedded Systems Course Teaching Assistant — *Sep 2017 - Oct 2017*

PROJECTS

- **Smart Lighting System**: An intelligent system based on NRF technology and cloud platforms.
- **TPMS Software and Hardware Design**: Temperature and Pressure Monitoring System for car tires.
- **Smart Gas Meter**: Designed and implemented for National Iranian Gas Company.
- **Asset Tracking System**: A system based on LoRa technology aimed at optimizing power consumption.
- **Remote Drone**: Design a low latency Drone communication system so that pilot can control it over Internet.
- **Smart Home Gateway**: A Zigbee based gateway with voice assistant capability for Smart home.
- **LoRa Solution**: Design and implement software of a LoRa network from end device to LoRa Network Server(LNS).

SKILLS

- **Languages**: Python, C, C++, Embedded C, Assembly, Cuda

- **Embedded Systems**: ST, TI, ESPressif and Microchip single core and dual core MCUs progrmmaing, Bare Metal programming, Single Board Computers, FreeRTOS

- **General Linux**: GNU toolchain, Firewalls(iptables, ufw), Kernel and Driver development, Networking, Bash scripting, Buildroot, LFS

- **Tools and Technologies**: Keil, CodeVision, MATLAB and Simulink, Altium Designer, Proteus, Git, MQTT, LoRa, FPGA development, GPU and Parallel processing