# Nima Falaki

Sahand University of
Technology
Tabriz, Iran

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## **RE**SEARCH INTRESTS

- Robotics and Artificial Intelligence
- Machine Learning
- Digital System Design
- High-frequency circuits and systems

## **ED**UCATION

Sahand University of Technology (SUT)          September 2019-Present

- Bachelor of Science in Electrical Engineering
- Anticipated Graduation: February 2024
- GPA: 3.57 (16.85/20) via 137 credits

Shahid Rezaei, Tabriz, East Azarbaijan, Iran          September 2016-September 2019

- High school diploma in Mathematics and Physics
- GPA: (18.80 / 20)

## **HO**NORS

- **Ranked top 10** among 80+ students in electrical engineering department
- **Offered exam-free admission** to M.Sc. program in electrical engineering, Sahand university
- **Ranked 2$^{st}$** in the field of electronics
- Member of Nano-Optics and Photonics Research Lab (NOPRL)

## **PU**BLICATIONS

- Dr. Mina Noori, **Nima Falaki** "Designing tunable filter with Photonic Crystal by using Kerr effect". (in preparation)

## **WO**RK EXPREINCE

- **Teaching Python** programming language in Yasan Academy

- **Internship**          July 2022-September 2022
  - Linear Control Lab for Electronic System Fault Diagnosis

## SKILLS

- Programming: Python -  Matlab -  C
- Software : Rsoft
- Hardware programming: VHDL
- Microcontrollers:  AVR -  Arduino -  STM

## SELECTED COURSES

- Neural Networks
- ASIC/FPGA Circuits
- Communication Circuits
- Intelligent Control
- Pulse Circuits
- Instruments
- Industrial electricity

## VOLUNTARY WORKS

- Member of IEEE young professionals Iran section
- Head of IEEE Sahand University branch
- Head of scientific association of electrical engineering department
- Member of Iran Energy Association (IEA)

## LANGUAGES

- English: Fluent (IELTS test will be taken on 10 January)
- Persian: Native
- Turkish: Native

## NOTICIBALE PROJECTS

- T.A in Pulse Circuits laboratory
- Assisted in editing communication circuits lectures
- Design and manufacture of robot:
    - Line following robot with obstacle detection (Arduino)
    - Lawnmower
    - Spy car using Esp32-cam board
- Setting up sensors such as temperature and humidity sensors with Arduino
- Investigating the efficiency of artificial neural networks for heart diseases dataset

**● References, Further information, and Proofs are available upon Request**