

# MEHDI DARVISHI

Shiraz,Iran

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🌐 [Mehdi\\_Darvishi](#)

🌐 [Website](#)

## EDUCATION

**Shiraz University of Technology (SUTech)**

*B.Sc. of Electrical Engineering - Telecommunications - GPA 4.01/4.3 – 17.99/20*

9/2020 – 9/2024

Shiraz, Iran

**Moaref High School**

*Diploma in Physics & Mathematics - GPA 4.07/4.3 – 18.43/20*

9/2016 – 7/2019

Shiraz, Iran

## RESEARCH INTERESTS

- Antenna Design in Different Frequencies
- Microwave Components
- Electromagnetic Metamaterials
- 5G/6G Front-End Design
- Microwave & Ultrasound Imaging for biomedical applications
- Biomedical Engineering

## SELECTED COURSES

- Microwave I (19.5/20)
- Data Transmission Systems (20/20)
- Telecommunication I (18.2/20)
- Computer Networks (20/20)
- Telecommunication Circuits (18.4)
- Electromagnetics (17.8/20)

## SELECTED PROJECTS

**BB directional rhombic Nanoantenna**

**Bachelor's Project**

- **About the project:** An optimized four-nanowire rhombic nanoantenna (RNA) is designed and numerically analyzed in terms of directivity and efficiency with high gain.

**UWB Antenna for Mobile Communication Applications**

**Freelance Project**

- **About the project:** Designed a low-profile patch antenna featuring circular-shaped slots in the patch and meander line slots in the partial ground plane to enhance bandwidth, gain, and directivity.

**Wearable Belt Antenna for Biomedical applications**

**Antenna Final Project**

- **About the project:** Designed a dual-band wearable belt antenna as a low-cost and reliable solution for smart on-body applications, composed of a metal buckle and a lossy leather substrate.

**Transceiver System**

**Data Transmission Systems Final Project**

- **About the project:** Build a data transmission system through NRF24L01 module to realize the efficient working range of NRF24L01 by transmitting message, voice, and variation in light intensity of the LED.

**AM Modulation/Demodulation**

**Telecommunication Circuits Final Project**

- **About the project:** Designed and implemented an AM modulator and demodulator project, gaining insight into circuit performance and analyzing the effect of increasing the frequency deviation on noise.

## PUBLICATIONS

**Multi-Band Bandpass Filter Using CRLH-TZRP**

**In Progress**

Arash Bastani, Mehdi Darvishi, and Shahrokh Jam, SeniorMember, IEEE

## TEACHING EXPERIENCE

**Microwave I Teaching Assistant**

**Winter-2024**

**Field & Waves Teaching Assistant**

**Fall-2023 & Fall-2024**

**Telecommunication I Teaching Assistant**

**Fall-2023 & Winter-2024**

**Mathematics of High School**

**10/2020 - 4/2022**

- At GAJ Educational Institute

## TECHNICAL SKILLS

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**Programming Languages:** MATLAB, Python, C

**Software:** CST Studio, HFSS, ADS, Proteus, CodeVision

**Microcontrollers:** AVR ATxmega128A3U, Arduino

**Others:** Having Experience Working With NRF24L01 module

## GENERAL SKILLS

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**Digital skills:** LaTeX, Fast typing, Prezi, MS Office

**Soft skills:** Teaching, Communication, Teamwork, Flexibility, Responsibility, Presenting

**Languages:** Turkish, Persian, English, French, Arabic

## CERTIFICATIONS

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- Machine Learning
- Simulation in CST Studio
- Introduction of MATLAB programming
- Introduction of Python programming
- Phone Repairing (Hardware)

## ENGLISH LANGUAGE PROFICIENCY

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**IELTS:**

**25 Nov. 2023**

Listening: 6.5 Reading: 7 Speaking: 6 Writing: 6 Overall: 6.5

## HONOR & AWARDS

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- Obtained the Rank 1 (one) among students in the Telecommunications Group and Rank 2 (two) among students in the field of Electrical Engineering
- Ranked among top 5% of university entrance exam for bachelor's degree
- Being a member of "Brilliant Talents Guidance Department"
- Received full scholarship from Shiraz University of Technology (tuition waived)
- Being an educational consultant for 2 years at GAJ Institute
- Director and organizer of 3 courses in summer school 2021 and 2022 at Shiraz University of Technology