

MEHDI DARVISHI

Shiraz,Iran

☎ +98-9304454561

✉ darvishimehdi.2000@gamil.com

🌐 [Mehdi_Darvishi](#)

🔗 [Website](#)

EDUCATION

Shiraz University of Technology (SUTech)

B.Sc. of Electrical Engineering - Telecommunications - GPA 3.73/4 - 18.01/20

9/2020 – 7/2024

Shiraz, Iran

Moaref High School

Diploma in Physics & Mathematics - GPA 3.79/4 - 18.43/20

9/2016 – 7/2019

Shiraz, Iran

RESEARCH INTERESTS

- Antenna/Array Design in Different Frequencies
- Microwave Components/Circuits (Passive)
- EM Metamaterials/Metasurfaces
- 5G/6G Front-End Design
- Microwave/Radar/Ultrasound/THz Imaging and Detection
- Biomedical Engineering

SELECTED COURSES

- Microwave I (19.5/20)
- Data Transmission Systems (20/20)
- Machine Learning (19.3/20)
- 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.

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

Novel Multi-Band Bandpass Filter Using CRLH-TZRP for 5G application

Submitted

Arash Bastani, Shahrokh Jam, Mehdi Darvishi

TEACHING EXPERIENCE

Microwave I Teaching Assistant

Spring-2024

Field & Waves Teaching Assistant

Fall-2023 & Fall-2024

Telecommunication I Teaching Assistant

Fall-2023 & Spring-2024

CST Studio Suite, Workshop

Spring-2024 & Fall-2024

Mathematics of High School

10/2020 - 4/2022

- At GAJ Educational Institute

WORK EXPERIENCE

Full-time Electrical Engineering Intern at Diaeco Wave Company

7.2024 - 9.2024

- **About the Responsibilities:** Analyzing the scattering parameters of passive components with Vector Network Analyzer, and working with simulation software, including ADS and CST Studio for designing new components and circuits.

TECHNICAL SKILLS

Programming Languages: MATLAB, Python, C

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

Microcontrollers: AVR ATxmega128A3U, Arduino

Others: Having Experience Working With NRF24L01 module

GENERAL SKILLS

Digital skills: LaTeX, 10-Finger Fast Typing, Prezi, MS Office, Photoshop

Soft skills: Teaching, Communication, Teamwork, Presenting

Languages: Turkish, Persian, English, French

CERTIFICATIONS

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

ENGLISH LANGUAGE PROFICIENCY

IELTS:

25 Nov. 2023

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

HONOR & AWARDS

- 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