MEHDI DARVISHI

Shiraz, Iran

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EDUCATION

Shiraz University of Technology (SUTech)   9/2020 – 7/2024
*B.Sc. of Electrical Engineering - Telecommunications - **GPA 3.73/4 – 18.01/20***   *Shiraz, Iran*

Moaref High School   9/2016 – 7/2019
*Diploma in Physics & Mathematics - **GPA 3.79/4 – 18.43/20***   *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)
- 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   **Spring-2024**

Field & Waves Teaching Assistant   **Fall-2023 & Fall-2024**

Telecommunication I Teaching Assistant   **Fall-2023 & Spring-2024**

Mathematics of High School   **10/2020 - 4/2022**
- At GAJ Educational Institute

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

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