Mehdi Darvishi

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EDUCATION

Shiraz University of Technology (SUTech) **9 /2020 - present**
B.Sc. of Electrical Engineering - Telecommunications - ***GPA 4.01/4.3 – 17.99/20*** *Shiraz, Iran*

Moaref High School **9 /2016 – 7/2019**
Diploma in Physics & Mathematics - ***GPA 4.07/4.3 – 18.43/20*** *Shiraz, Iran*

RESEARCH INTERESTS

- Antennas 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- in progress**
- **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.

Microstrip Branch-Line Quadrature Hybrid **Microwave I Final Project**
- **About the project:** Designed a 90-degree hybrid coupler to measure and optimize different parameters, including directivity, coupling, isolation, and return loss in diverse operational conditions.

TEACHING EXPERIENCE

Microwave I Teaching Assistant **Feb.2024 - present**

Field & Waves Teaching Assistant **Sep.2023 - Jan.2024**

Telecommunication I Teaching Assistant **Sep.2023 - Jan.2024**

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

TECHNICAL SKILLS

Programming Languages: MATLAB, Python, C
Software: CST Studio, ADS, Proteus, CodeVision, Wireshark
Microcontrollers: AVR ATxmega128A3U, Arduino
Others: Having Experience Working With NRF24L01 module

GENERAL SKILLS

Digital skills: LaTeX, Fast typing, Prezi, MS Office
Soft skills: Teaching, Communication, Teamwork, Flexibility, Responsibility, Presenting
Languages: Turkish, Persian, English, French, Arabic

CERTIFICATIONS

- Machine Learning (In progress)
- 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)
- Director and organizer of 3 courses in summer school 2021 and 2022 at Shiraz University of Technology