

MEHDI DARVISHI

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Mehdi-Darvishi



Personal Website

EDUCATION

Polytechnic Institute of Paris - Télécom SudParis
M.Sc. in Electrical and Optical Engineering - EOE

9/2025 – Present
Paris, France

Shiraz University of Technology (SUTech)
B.Sc. in Electrical Engineering - Telecommunications - 18.01/20

9/2020 – 7/2024
Shiraz, Iran

Moaref IV High School
Diploma in Physics & Mathematics - 18.43/20

9/2016 – 7/2019
Shiraz, Iran

RESEARCH INTERESTS

Radio Frequency, Microwaves & Millimeter waves [RFM²]

- Antennas, Arrays, and Propagation
- Metamaterials & Metasurfaces
- Reconfigurable Intelligent Surfaces (RIS)
- 5G/6G Front-End Design
- Microwave Components & Circuits
- Electromagnetic Imaging, Sensing, and Detection

PUBLICATIONS

A. Bastani, S. Jam*, and M. Darvishi, "Compact Multiband Bandpass Filter With Independently Controlled Passbands Using CRLH-TZRP," *Scientific Reports*, accepted Jan. 2026.

SELECTED PROJECTS

BB Directional Rhombic Nanoantenna

Bachelor's Project

- An optimized four-nanowire rhombic nanoantenna (RNA) is designed for optical wireless communications systems, which was numerically analyzed in terms of directivity and efficiency with high gain.

Wearable Belt Antenna for Body Communication Networks

Antenna I Final Project

- Designed a dual-band wearable belt antenna as a low-cost and reliable solution for smart on-body applications, with stable performance for both on and off-body scenarios.

Traffic Sign Recognition

Machine Learning Final Project

- Implemented a Convolutional Neural Network (CNN) for traffic sign classification using the GTSRB dataset. Achieved accurate recognition performance.

Transceiver System

Data Transmission Systems Final Project

- Build a data transmission system through the NRF24L01 module to realize an efficient working range by transmitting messages, voice, and variations in light intensity of LED.

AM Modulation/Demodulation

Telecommunication Circuits Final 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.

TEACHING EXPERIENCE

Microwave I | Teaching Assistant

Winter-2024 & Winter-2025

Fields & Waves | Teaching Assistant

Fall-2023 & Fall-2024

Telecommunication I | Teaching Assistant

Fall-2023 & Winter-2024

CST Studio Suite | Workshop

Winter-2024 & Fall-2024

High School Mathematics

10/2020 - 4/2022

WORK EXPERIENCE

Electrical Engineering Intern | Diaeco Wave Company | Full-time

7.2024 - 9.2024

- Analyzing S-parameters of passive components using a Vector Network Analyzer, and working with simulation software such as ADS and CST Studio to modify component and circuit parameters.

TECHNICAL SKILLS

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

Hardware: Network Analyzer , AVR ATxmega128A3U, Arduino, NRF24L01, Oscilloscope, Signal Generator

Programming Languages: MATLAB, Python, C

Laboratory: RF & Microwave Lab Measurements, Antenna Testing

GENERAL SKILLS

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

Soft skills: Teaching, Communication, Teamwork, Presenting

Languages: Turkish (native), Persian (native), English (C1), French (A2-B1)

SELECTED CERTIFICATION

6G Deployment | Antenna Systems, Digital Twins, Testbeds

Nov. 2025

University of Glasgow

Glasgow, Scotland

Completed specialized training on next-generation (6G) wireless systems, with a focus on antenna arrays, sub-THz spectrum, RIS technology, ubiquitous connectivity, practical use cases, key challenges, testbeds, and digital twins.

ENGLISH LANGUAGE PROFICIENCY

IELTS Exam (Overall 6.5)

25 Nov. 2023

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

Istanbul, Turkey

HONOR & AWARDS

- Rank 1st among the 25 students in the Telecommunications Group (B.Sc.)
- Rank 2nd among the 70 students in Electrical Engineering (B.Sc.)
- Ranked among the top 3% nationally in the Iranian National University Entrance Exam (Konkour)
- Being a member of “Brilliant Talents Guidance Department”
- Received a scholarship (Tuition Waived) + Final Semester TA Fund from Shiraz University of Technology
- Being an educational consultant for 2 years at GAJ Institute
- Director and organizer of summer schools 2021 and 2022 at Shiraz University of Technology