

# MEHDI DARVISHI

Paris, France

☎ +33-745692252

✉ mehdi.darvishi@telecom-sudparis.eu

🌐 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 [RFM<sup>2</sup>]**

- 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

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### 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

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**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

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**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

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### 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

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### IELTS Exam (Overall 6.5)

25 Nov. 2023

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

*Istanbul, Turkey*

## HONOR & AWARDS

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- 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