Mehdi Darvishi

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EDUCATION

Polytechnic Institute of Paris - Télécom SudParis **9/2025 – Present**
M.Sc. in Electrical and Optical Engineering - EOE *Paris, France*

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

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

RESEARCH INTERESTS

Radio Frequency, Microwaves & Millimeter waves [RFM^2]

- Antennas, Arrays, and Propagation
- EM Artificial Metamaterials & Metasurfaces
- 5G/6G Front-End Design
- Microwave Components & Circuits
- Electromagnetic Imaging, Sensing, and Detection

PUBLICATIONS

Compact Multiband Bandpass Filter With Independently Controlled Passbands Using CRLH-TZRP
Arash Bastani, Shahrokh Jam, Mehdi Darvishi – Under Review*

SELECTED COURSES

Master's Year 1:
Microwaves and Antennas / RF for Connected Objects / Wireless Systems / Fiber-Optic Communication

Bachelor's:
Microwave I / Antenna I / Fields & Waves / Electromagnetics / Telecommunication I & II & Circuits

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

Programming Languages: MATLAB, Python, C

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

Laboratory: RF & Microwave Laboratory Measurements, Antenna Testing & Characterization

Others: Having Experience Working With AVR ATxmega128A3U, Arduino & NRF24L01 module

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 (B2), French (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 2% 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