



Nasrin Karimi

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Education

M.Sc. in Electrical Engineering (Field and Waves)

[Faculty of Electrical and Computer Engineering, Shahid Beheshti University](#)

Tehran, Iran
Sep. 2022 - Sep. 2024

- **Cumulative GPA: 3.9/4 - Ranked 1st among Students**

B.Sc. in Electrical Engineering

[Faculty of Electrical and Computer Engineering, Shahid Beheshti University](#)

Tehran, Iran
Sep. 2018 - March 2022

- **Cumulative GPA: 3.34/4, Last two years: 3.6/4, Final year: 3.7/4 - (Has Finished in 7 Semesters (rather than 8))**

Diploma in Mathematics & Physics

Muallem High school and Pre-University

Tehran, Iran
Sep. 2014 - Sep. 2018

- **Cumulative GPA: 19.59/20**

Research Interests

Machine Learning, in general and Deep Learning and Neural Networks, in particular with applications in Field and Waves.

Theses

MIMO Imaging Radars and Resolution Enhancement Using Deep Learning Methods

Tehran, Iran

[Faculty of Electrical and Computer Engineering, Shahid Beheshti University](#)

Sep. 2024

- **Score: Excellent Degree**

Link Quality Estimation of Wireless Communications with ML Algorithms Using SVM

Tehran, Iran

[Faculty of Electrical and Computer Engineering, Shahid Beheshti University](#)

Feb. 2022

- **Score: 19.25/20**

Honors & Awards

2022 Offered **Straight Admission of M.Sc. (Telecommunication Systems) & (Field and Waves),**

[Faculty of Electrical and Computer Engineering, Shahid Beheshti University](#)

2018 **Within 0.5% place among more than 156,000 participants,** Nationwide Universities Entrance Exam (B.Sc.)

2017 **Ranked 1st,** Electronic Content Competition, District 4, Tehran, Iran

Experiences

Research Experience

Research Assistant

MCI & Shahid Beheshti University, Tehran, Iran

[MCI \(Mobile Telecommunication Company of Iran\)](#)

Oct. 2022 - Apr. 2023

- Optical Transmission Networks, Dedicated Fiber, Passive Optical Network, CPRI over Ethernet, OFDM/FDM for 5G

Work Experience

Telecommunication Engineering Intern

MCI, Ardebil, Iran

[TCI \(Telecommunication Company of Iran\)](#)

Summer 2021

- The Components of the Telecommunication Technical Center (Switching, Cable, Control, etc. Rooms), Registering Phone Failures, Concept of Traffic, Volume and its Measurement Methods, Type of Networking System (LAN, MAN, WAN,...), Optimization Software, Mechanism of Switching Networks, ...

Teaching Experience

Teaching Assistant

Field and Waves & Linear Algebra

Semester Spring 2024

Linear Algebra, Engineering Mathematics, Electromagnetics, Technical Language

Semester Fall 2023

Linear Algebra, Telecommunication Circuits, Technical Language

Semester Spring 2023

Telecommunication Circuits, Physics

Semester Fall 2021

Languages

Persian, Azerbaijani

Mother Language (Native)

Turkish, Korean

Beginner

English

IELTS (Oct. 20, 2022) Overall 7 (Reading: 8.5, Listening: 7.5, Speaking: 6.5, Writing: 6)

Projects

Feko, CST

Design and Fabricate Multiple Antennas with Specific Characteristics: Printed Dipole - Dipole - Conical Horn - Pyramidal Horn, Study the Influence of Gap in Dipole Antennas

ADS, CST, Altium

Design and Fabricate a Metamaterial Unit cell for CRLH Bandpass Filter with specific Characteristics, Design a Coplanar Wave Guide and Microstrip Line with the specific 77 ohms Characteristic Impedance

Designer

[Analog Modulation \(DSB, USSB, ... + Demodulation\)](#), [Echo and Noise Removing](#)

MATLAB

[Yes/No Audio Verification](#), [Solving Sudoku Tables using Optimization](#)

Python

[4 Floor Elevator + Ground floor with Many Features](#), [Museum Protector](#), Smart Dustbin/ Flower, RGB Bedside Lamp

Arduino, Proteus

[Detecting Edge of Pictures](#)

Verilog, Xilinx

[Calculator \(with many features\)](#)

C++

Hobbies

Cars! - Work out - Reading - Painting - Games - Robotics - Watching Movie - Motor bicycles!