

Pedram Mehrabi



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- ❖ Hands-on experience with HUAWEI microwave equipment
- ❖ A Telecommunication Technologist
- ❖ A Self-learner programmer
- ❖ UI developer @ [Fracima](#)



EDUCATION HISTORY

2013 - 2015	Master of Science Telecommunications Engineering ▪ GPA: 17.50/20 ▪ Thesis: Internal port modeling of electronic devices for interconnect characterization by using TDR	>> Amirkabir University of Technology, Iran Supervisor: <u>Dr. Gholamreza Moradi</u>
2008 - 2013	Bachelor of Science Electrical Engineering (Telecom) ▪ GPA: 16.18/20 ▪ Thesis #1: Investigation of NMR systems used for detection, imaging and distinguishing between various substances in MRI samples ▪ Thesis #2: Design and implementation of Holography experiments in electrical and optical communication lab	>> Isfahan University of Technology, Iran Supervisor: <u>Dr. Reza Safian</u>
2004 - 2008	High School Diploma Mathematics and Physics Imam Sadeq high school, Isfahan, Iran	GPA: 19.80/20 (1st Rank In province)

RESEARCH EXPERIENCES & PROJECTS

Feb _ May 2020	Software Design <ul style="list-style-type: none">Design of a python-based warehousing application, which not only allows users to manage their warehouse, shelves and inventory more easily, but also, serves them to keep track of their customers' accounting, shopping preferences and purchasing statistics.
Feb _ May 2015	Microwave <ul style="list-style-type: none">Design of SPR filters in both micro strip and waveguide lines.
Sep _ Dec 2014	Microwave Measurement (Experimental) <ul style="list-style-type: none">Transmission line characterization using TDR techniques.Circuit model extraction for microwave discontinuities such as bend (symmetrical) or step (asymmetrical) using TDR.Measurement and extraction of relative permittivity of liquids (group of liquids) using six port technique.Cable fault locating using power detectors.
Sep _ Dec 2013	Electromagnetics <ul style="list-style-type: none">Transmission line-model Extraction for RF coils using Maxwell's equations.

LANGUAGES

- English ADVANCED
 - IELTS_General R: 8 L: 8 S: 7 W: 7 Overall: 7.5 2019_Nov
 - IELTS_Academic R: 8 L: 8 S: 6.5 W: 6 Overall: 7 2019_Feb
 - TOEFL iBT (EXPIRED) R: 23 L: 27 S: 23 W: 24 Overall: 97 2016_Sep
- French INTERMEDIATE
- Persian NATIVE



WORK EXPERIENCES

July. 2020- Sep. 2021

UI developer (Remote Working)

[Fracsima](#), Paris, France

- Design and development of a python-based GUI which serves to interact with users, allowing them to run DISROC and other related modules.

Nov. 2018- Jun 2020

Telecommunication Technologist and Engineer

TALIS Knowledge-based Co., Isfahan Science and Technology Town, Isfahan, Iran

- Configuration and implementation of high-power Electromagnetic air-pollution control systems used for settlement of industrial pollutants and dusts,
- Design and optimization of high-power electromagnetic antennas according to project objectives, physical constraints and configuration restrictions,
- Installation of COFDM transceivers for transmission of both control commands and video streaming signals, used for the evaluation of dust density in the air,
- Maintenance and Monitoring of the installed equipment with a view to diagnosing and clearing of the occurred errors and systematic faults,
- Documentation of the results gained from carried out tests and researchs.

May. 2017- Oct. 2018

Microwave Engineer

Huawei Technologies Co, Tehran, Iran

- Planning of microwave links with a view to reaching the desired capacity,
- Installation of microwave links according to planned scenarios,
- Modernization of HUAWEI microwave equipment (4G-LTE-TDD/FDD project)
- Upgrading MW links by the aggregation of TDM traffic, packets & IP services,
- Microwave material management & reporting for dismantled equipment,
- Hands-on experience in on-site installation and implementation issues,
- inventory management & Warehouse arrangements.

Apr. 2016 - Apr. 2017

Telecommunication Technologist and Engineer

TALIS Knowledge-based Co., Isfahan Science and Technology Town, Isfahan, Iran

- Test, Characterization and Documentation of COFDM transceivers,
- Design & optimization of MW links so as to maximize the transmission board,
- Experimental assessment of interfering frequencies to minimize the interference,
- Implementation of the designed link between a flying helicopter and a base station to exchange live video streaming signals.

Jan.2014 – Mar2014

Teaching Assistant

Amirkabir University of Technology

Course: [Microwave Measurement](#)

QUALIFICATIONS & CERTIFICATIONS

• Machine Learning & Data mining	<i>Delivered by:</i> MEHREGAN	Date: May.2020
• Python (Advanced)	<i>Delivered by:</i> MEHREGAN	Date: Feb.2020
• HCNA (Microwave networking)	<i>Delivered by:</i> HUAWEI	Date: Jan.2018
• HCNA (Cloud computing)	<i>Delivered by:</i> HUAWEI	Date: Oct.2018
• Network +	<i>Delivered by:</i> METACO	Date: May.2017
• International Cuisine	<i>Delivered by:</i> IRANTVTO	Date: Dec.2010

SOFTWARE SKILLS

EXPERIENCED	➤ ADS	➤ PYTHON	➤ I RIVER LINK DESIGNER	➤ MICROSOFT OFFICE
LIMITED	➤ CST	➤ U2000	➤ DJANGO	➤ HTML & CSS

UPON REQUEST

➤ Dr. Amade Pouya	PROFESSOR <i>ECOLE DES PONTS PARIS TECH, FRANCE</i>	PHONE: +33 6 22 16 01 75 EMAIL: POUYA@FRACSIMA.FR
➤ Dr. Reza Safian	SENIOR RESEARCHER <i>IMEC, FLORIDA, USA</i>	PHONE: +1(407)437-9878 EMAIL: REZA.SAFIAN@IMEC.COM

