

# MOHADESEH AZARI

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## EDUCATION

B.Sc.

**Electrical Engineering – GPA : 3.54 (16.72)**

📅 September 2017 – December 2021 📍 University of Tehran

Minor

**Physics – GPA : 3.75 (16.79)**

📅 September 2018 – December 2021 📍 University of Tehran

Diploma

**Mathematics and Physics Discipline – GPA : 4 (19.98)**

📅 September 2013 – June 2017 📍 NODET high school

## RESEARCH EXP AND INTERNSHIP

Quantum Communication

**Photonic Quantum Memory**

📅 November 2020 – (ongoing project) 📍 University of Tehran

- Supervisor: Dr.Zahra Shaterzadeh Yazdi .🔗 (Faculty of Engineering Sciences)
- Evaluating different aspects of ATS and EIT protocols
- Evaluating the results of experimental tests
- Comparing ATS and EIT protocols practically

Quantum Communication

**Long Distance Quantum Communication and Quantum Repeaters**

📅 January 2021 – September 2021 📍 University of Tehran

- Supervisors: Dr.Leila Yousefi .🔗 ( Faculty of Electrical and Computer Engineering)
- Dr.Saleh RahimiKeshari (Faculty of Physics)
- Accessing long distance Quantum Communication trough focusing on Quantum Repeaters
- Implementing Quantum repeaters via Quantum Gates
- Applying software tools to implement Quantum Gates
- See on GitHub

Brain Network

**The Correlation between Brain and Digital Networking Methods**

📅 June 2020 – October 2020 📍 University of Tehran

- Supervisor: Dr. Maryam Sabaghiyan (Faculty of Electrical and Computer Engineering)
- Neural Communication vs. Communication Engineering
- The application of communication engineering methods in Neural Diseases
- See on GitHub

## TEACHING EXPERIENCES

- Digital Signal Processing – Fall 2020
- Digital Logic Design Lab – Fall 2020
- Physics II – Spring 2020
- Introduction to Computing Systems and Programming – Spring 2020
- Digital Logic Design – Spring 2020
- Electrical Engineering General Workshop – Fall 2019
- Digital Logic Design – Fall 2019

## INTERESTS

Quantum Communication

Quantum Memory and Repeaters

Cryptography

Network Security

Photonics

Information Theory

## CERTIFICATES

IELTS : International English Language Testing System

Score : 7.5

Listening 8 / Writing 6 / Reading 8 / Speaking 7

📅 July 2021

Matlab

IEEE university of Tehran

📅 July 2017

Arduino

IEEE university of Tehran

📅 July 2017

## HONORS

- Top 0.25 Percent of the Electrical Engineering student at University of Tehran – 2021
- Top 0.3 Percent of the Nationwide Iranian entrance university exam – 2017
- Semi-Finalist of National Physics Olympiad – 2016

## PROJECTS

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### Electrical Engineering

#### Academic Projects

📅 September 2017 – December 2021    📍 University of Tehran

- Signal Processing
  - Shazam demo / Steganography / Face Detection – Matlab
  - Voice and Image Processing – C
- Network Security
  - Email Security / RSA Protocol / Chatroom – Python
  - Email Spoofing – Ubuntu
  - Packet Tracing – Wire-shark
- PAC-Man Game – C
- Inverted Pendulum – Matlab + Physical Design
- Computer Architecture
  - Function Generator / Frequency Synchronizer / MIPS Processor / Pipe lining – Quartus + Modelsim

## WORKSHOPS AND CONFERENCES

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- QCALL Conference on Quantum Repeaters and Quantum Memory – 2021
- Qiskit Seminar, Error Mitigation for Universal Gates on Encoded Qubits – 2021
- Dr.Erhan Saglamyurek's lecture on ATS BEC memory – 2021
- Qiskit Online Summer School – 2020
- edx on : Neuro Science I,II /Quantum Cryptography – 2020-2021
- Coursera on : Quantum Optics – 2021
- Other Online courses : HTML/Advanced Programming – 2018-2019

## TECHNICAL SKILLS

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Python	●●●●●●
Verilog/System Verilog	●●●●●●
Matlab/Mathematica	●●●●●●
latex	●●●●●●
Qiskit	●●●●●●
Wire-Shark	●●●●●●
linux	●●●●●●
Auto CAD	●●●●●●
Arduino microcontroller	●●●●●●
Pyquil	●●●●●●
C/C++	●●●●●●
HTML	●●●●●●
R	●●●●●●
Spice	●●●●●●
LC3	●●●●●●

## RELEVANT COURSES

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- Quantum Mechanics
- Digital Communication I/II
- Computer Network
- Network Security
- Statistical Mechanics
- Wireless Communication

## LANGUAGES

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English	●●●●●●
Arabic	●●●●●●
Persian	●●●●●●