AI AND ROBOTICS MASTER STUDENT OF ISFAHAN UNIVERSITY OF TECHNOLOG

Isfahan-Iran

□ (+98)935-756-2225 | ☑ farhadvaseghi1998@gmail.com | 备 https://farhadvaseghi.github.io/ | ☑ https://github.com/farhadvaseghi | 匝 https://www.linkedin.com/in/farhadvaseghi1998/ | ⑤ live:.cid.cec11c323b0658f0

"Be the change that you want to see in the world."

Education

IUT(Isfahan University of Technology)

Isfahan, Iran

Sept. 2021 - Present

M.S. IN ARTIFICIAL INTELLIGENCE AND ROBOTICS

3ept. 2021 - Fresen

• (GPA: 17.58/20 or 4/4).

IUT(Isfahan University of Technology)

Isfahan, Iran

B.S. IN ELECTRICAL ENGINEERING

Sept. 2017 - July 2021

• (GPA: 16.95/20 or 3.54/4).

Honors & Awards

2021	Elite student , Entering master degree directly without domestic qualification exam (Konkour).	Istahan, Iran
2017	Elite student, Received national undergraduate full scholarship.	Isfahan, Iran
2017	Konkoor , Ranked 820 among more than 500,000 participants for the university entrance.	Isfahan, Iran

Academic Projects

Toxic Comment Classification on dataset provided by Jigsawa/Conversation Al.

DEEP LEARNING COURSE

SLAM using gmapping with TurtleBot robot and Gazbo.

ROBOTICS COURSE

Al Driven Snake Game using Deep Q Learning with PyTorch.

REINFORCEMENT LEARNING COURSE

Aerial Imagery Segmentation on Dubai's Satellite Imagery Dataset.

DEEP LEARNING COURSE

Capuchinbird Audio Classification with Tensorflow.

ML COURSE

Sound power estimation with an acoustic camera (UMA-16 USB which from MiniDsp Company).

BACHELOR DEGREE PROJECT

Creating an interface for automotive radar (ARS 408 from Continental Company).

A Hybrid Algorithm for Disparity Calculation based on Semantic Stereo Matching.

COMPUTER VISION COURSE

Creating a signal generator with Verilog language on Xilinx Spartan-6 LX9.

FPGA PROGRAMMING COURSE

Professional Work Experiences

AI AND ROBOTICS Lab(Dr.Samaneh Hosseini Semnani)

Isfahan, Iran

RESEARCHER

Nov. 2021 - Aug. 2022

- The project was about implementing and simulating ORCA(Optimal Reciprocal Collision Avoidance) algorithm for Drone Light Show.
- Implemented simulations phase on GAZEBO.

RASA MOJE Company

Isfahan, Iran

RESEARCHER

July 2020 - Mar. 2021

- Introducing and Implementing algorithms for Automotive Radars.
- Implemented a framework for signal processing algorithms related to the cruise control systems of cars for automotive radars (AWR1243, TSW1400EVM, and DCA1000EVM from Texas Instruments company).

Teaching Experiences _____

Lab Instructor

- Digital Signal Processing Lab, Isfahan University of Technology.
- C Programming Lab, Isfahan University of Technology.

Teaching Assistant

- FPGA Programming with Verilog, Isfahan University of Technology.
- Digital System Design I, Isfahan University of Technology.

Mentor

- Digital system Design with Arduino, Isfahan University of Technology.

Skills

Programming Matlab, Python, C/C++, Verilog, Assembly, LATEX, version control GIT

Al and Robotics Tools OpenCV, ROS, Gazebo

PCB Design Software Altium Designer

Micro Controllers/FPGA AVR, ARDUINO, FPGA (Xilinx)

Languages Farsi (native), English (fluent)

References

Dr. samaneh hosseini semnani

Department of Electrical Computer Engineering Isfahan University of Technology **Assistant Professor**

Dr. Maziar Palhang

Department of Electrical Computer Engineering Isfahan University of Technology Assistant Professor

palhang@cc.iut.ac.ir

Dr. Ehsan Yazdian

Department of Electrical Computer Engineering Isfahan University of Technology **Assistant Professor**

yazdian@cc.iut.ac.ir