

# Arya Parvizi

Updated on 12 novembre 2022

Born on 7 august 1998 in Shiraz, gender : male, marital status : single

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## Education

### Bachelor of Computer Engineering

Tehran, Iran

#### SHAHID BEHESHTI UNIVERSITY

2017 - 2022

GPA : 3.09/4 (15.48/20), GPA last two years : 3.07/4 (15.36/20)

## Educational Experience

### • Teaching Assistant

INTRODUCTION TO ALGORITHMS DESIGN

Fall 2022

Instructed by Professor Ramak Ghavamizadeh

### • Instructor

INTRODUCTION TO ROBOTICS

Summer 2022

Robotics Laboratory, Computer Science and Engineering Faculty

### • Laboratory Member (Researcher, Co-Manager)

ROBOTICS LABORATORY, COMPUTER SCIENCE AND ENGINEERING FACULTY

Summer 2021 - Present

Under Supervision of Professor Armin Salimi-Badr

### • Teaching Assistant

DIGITAL LOGIC CIRCUITS

Spring 2019

Instructed by Professor Hamidreza Mahdiani

## Skills

- **Programming Languages** : Python, C/C++, Java, Matlab
- **Frameworks** : Keras/Tensorflow, OpenCV
- **Engines and Simulators** : Webots Simulator, Unity Game Engine, Robocup Soccer Simulator
- **Industry knowledge** : Image Processing, Signal Processing, Computer Vision, Artificial Neural Networks, Convolutional Neural Networks, Recurrent Neural Networks, Machine Learning, Simultaneous Localization and Mapping, Planning, Reinforcement Learning, Visual SLAM, Optimal Control, Evolutionary Algorithms
- **Operating Systems** : Windows, Ubuntu, Raspbian
- **Miscellaneous** : Robot Operating System(ROS), GIT, LaTeX

## Research Interests

- Robotics(High/Low level Optimal Control, SLAM, Planning)
- Deep learning & Machine Learning
- Reinforcement Learning
- Natural Language Processing
- Signal Processing
- Computer Vision & Image Processing
- Evolutionary Algorithms
- Simulators

## Languages

- **Persian** : Native
- **English** : Fluent
- **Japanese** : Intermediate

## Honors and Awards

### The Best Bachelor Thesis Project

NOMINEE

Summer - 2022

### ROBOIUT2021, Webots' Line Follower league, Isfahan university of technology

RANKED 1ST

Fall - 2021

## Projects (Chronological Order)

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### Learning Hand-Written Digit Patterns Using Robotic Arms(Bachelor Thesis Project)

SUPERVISOR : PROFESSOR ARMIN SALIMI-BADR / REFEREE : PROFESSOR YASER SHEKOFTEH

Summer 2022

### 2D Soccer Platform

HOBBY PROJECT

Winter 2022

### Heater/Cooler Control System (Course Project)

EMBEDDED AND REAL TIME SYSTEMS INSTRUCTED BY PROFESSOR SEYED-HOSEIN ATTARZADEH-NIAKI

Fall 2021

### Classification of Different Car Brand Models (Course Project)

FUNDAMENTALS OF COMPUTATIONAL INTELLIGENCE INSTRUCTED BY PROFESSOR HAMED MALEK

Fall 2021

### An Implementation of a Complete Motion Control, Planning, Navigation, Mapping Platform for the Omni-Directional Shahid Beheshti Robot (Internship Project)

ROBOTICS LABORATORY, COMPUTER SCIENCE AND ENGINEERING FACULTY, UNDER SUPERVISION OF PROFESSOR ARMIN SALIMI-BADR

Summer 2021

### E-Puck Robot Wall Following and Obstacle Avoidance (Course Project)

PRINCIPLES OF ROBOTICS INSTRUCTED BY PROFESSOR ARMIN SALIMI-BADR

Spring 2021

### MinesWiper a MineSweeper Solver

HOBBY PROJECT

Spring 2021

### Analysis and Optimization of the Shazam Algorithm (Course Project)

MATLAB PROGRAMMING WORKSHOP INSTRUCTED BY PROFESSOR YASER SHEKOFTEH

Fall 2020

### A Clone of Skype's Background Blurring on Webcams (Course Project)

COMPUTER VISION INSTRUCTED BY PROFESSOR ALIREZA TALEBPOUR

Fall 2020

### An Implementation of Decaf Compiler (Course Project)

COMPILER DESIGN INSTRUCTED BY PROFESSOR MOHAMMAD REZA BAHRAMI

Fall 2020

### Automated Scheduling and Course Selection for Students (Course Project)

ARTIFICIAL INTELLIGENCE INSTRUCTED BY PROFESSOR MEHRNOUSH SHAMSFARD

Fall 2019

### Eight Puzzle Platform and Solver (Course Project)

ARTIFICIAL INTELLIGENCE INSTRUCTED BY PROFESSOR MEHRNOUSH SHAMSFARD

Fall 2019

## References

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### Professor Armin Salimi-Badr

ASSISTANT PROFESSOR, SHAHID BEHESHTI UNIVERSITY

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