

Arya Parvizi

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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)
- Human-Robot Interaction
- 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)

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

SUPERVISOR : PROFESSOR ARMIN SALIMI-BADR / REFEREE : PROFESSOR YASER SHEKOFTEH
[\[more info\]](#)

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

Professor Armin Salimi-Badr

ASSISTANT PROFESSOR, SHAHID BEHESHTI UNIVERSITY

- Email : a_salimibadr@sbu.ac.ir

Professor Yaser Shekofteh

ASSISTANT PROFESSOR, SHAHID BEHESHTI UNIVERSITY

- Email : y_shekofteh@sbu.ac.ir