

Updated on January 4, 2024

Born on August 7th 1998 in Shiraz, Gender: Male, Marital status: Single

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Work Experience

Concealand Game Studio

Tehran, Iran

GAME DEVELOPER INTERN February 2023 - April 2023

Procedural Content Generator (Procedural Animation for a Humanoid Character).

Worked with Unity3D IK frameworks and animation rigging package.

Getting familiar with Unity ML model training system.

Researched the applications of Reinforcement Learning, Imitiation Learning, Curriculum Learning in the humanoid animation of Computer Graphics and Robotics subjects.

NAO Research and Development Group

Tehran, Iran

ROBOTICS ENGINEER INTERN

July 2021 - September 2021

Responsible for Robot motion and A.I.

The project was implementing an autonomous control system for SBU omni-directional robot. Applied Localization and Mapping algorithms using ROS2 slam libraries with LIDAR sensors.

Applied Maze Solving, Obstacle avoidance, and Navigation algorithms using Python3.

Fixing the 3D Model in Webots which was causing a dynamic motion failure and getting familiar with robot 3D models, URDF and Proto, and the SBU omni-robot structure in Webots.

Setting Up the ROS2 platform for the robot and getting familiar with the ROS2 networking protocols and architectures.

Education _

Master of Computer Science

Fredericton, NB, Canada

UNIVERSITY OF NEW BRUNSWICK

2023 - Present

GPA: 3.9/4.3

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)

Honors and Awards

RoboCup IranOpen2023 International Competitions, Soccer 2D Simulation League

RANKED 3RD - AS A MEMBER OF R3CESBU TEAM

Spring - 2023

The Best Bachelor Thesis Project

NOMINEE Summer - 2022

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

RANKED 1ST Fall - 2021

Skills

- Programming Languages: Python, C/C++, R, Javascript, Java
- Frameworks and libraries: Keras/Tensorflow, OpenCV, Scikit-learn, Seaborn, Pandas, Node.JS
- Databases : SQL
- Engines and Simulators : Webots Simulator, Unity Game Engine, Robocup Soccer Simulator, Gazebo Robot Simulator, OpenAl Gym
- Industry knowledge: Computer Vision, Image Processing, Signal Processing, Machine Learning, Artificial Neural Networks, Convolutional Neural Networks, Recurrent Neural Networks, Reinforcement Learning, Simultaneous Localization and Mapping, Planning, Visual SLAM, Optimal Control, Evolutionary Algorithms
- Operating Systems: Windows, Ubuntu, Raspbian
- Miscellaneous: Robot Operating System(ROS), GIT, LaTeX

Languages

• Persian : Native

• Japanese : Intermediate

• English: Fluent (IELTS scores: Listening: 8, Reading: 9, Writing: 6.5, Speaking: 7, Overall Bandscore: 7.5)

Educational Experience	
Research Assistant	
Human-Robot Interaction Laboratory, Computer Science and Engineering Faculty Under Supervision of Professor Daniel Rea	September 2023 - Present
Laboratory Member (Researcher, Co-Manager)	
ROBOTICS LABORATORY, COMPUTER SCIENCE AND ENGINEERING FACULTY	Summer 2021 - Present
Under Supervision of Professor Armin Salimi-Badr • 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 • Teaching Assistant	
DIGITAL LOGIC CIRCUITS	Spring 2019
Instructed by Professor Hamidreza Mahdiani	
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
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
Simple Bitcoin Estimator Using Regression (Course Project)	
FUNDAMENTALS OF COMPUTATIONAL INTELLIGENCE INSTRUCTED BY PROFESSOR HAMED MALEK	Fall 2021
Survivability Likelihood of Titanic Passengers Data Analysis (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
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
	7.3.1.2020
Automated Scheduling and Course Selection for Students (Course Project) ARTIFICIAL INTELLIGENCE INSTRUCTED BY PROFESSOR MEHRNOUSH SHAMSFARD	Fall 2019
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Eight Puzzle Platform and Solver (Course Project)	
ARTIFICIAL INTELLIGENCE INSTRUCTED BY PROFESSOR MEHRNOUSH SHAMSFARD	Fall 2019