

Updated on September 21, 2024

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

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Education

Master of Computer Science Fredericton, NB, Canada

UNIVERSITY OF NEW BRUNSWICK

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)

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

July 2021 - September 2021

2023 - Present

ROBOTICS ENGINEER INTERN

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.

Honors and Awards

RoboCup 2024 International Competitions, Soccer 2D Simulation League

RANKED 5TH - AS A MEMBER OF R2D2 TEAM Summer - 2024

Scholarship from School of Graduate Studies, University of New Brunswick

Board of Governors Merit Awards for Graduate Studies Fall - 2023

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

Konkour, National University Entrance Exam

TUITION WAIVED ADMISSION TO SHAHID BEHESHTI UNIVERSITY - RANKED TOP 4% Fall - 2017

Skills _

Languages: Python, C/C++, Javascript, Frameworks: Keras/Tensorflow, Node. JS, React, OpenCV, PyTorch, Databases: SQL, PostgreSQL, Pandas, Redis Simulators: Webots Simulator, Unity Game Engine, Robocup Soccer Simulator, Gazebo Robot Simulator, OpenAl Gym, Knowledge: Computer Vision, Image Processing, Signal Processing, ML, ANNs, Reinforcement Learning, SLAM (Simultaneous Localization and Mapping), Planning, Optimal Control, Evolutionary Algorithms Operating Systems: Windows, Ubuntu, Raspbian MISC.: Robot Operating System(ROS), GIT, Docker, CUDA

Languages _

• Persian : Native

• Japanese : Intermediate

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

Publications	
Generating Hand-Written Symbols With Trajectory Planning Using A Robotic Arm [more info]	
2023 13TH INTERNATIONAL CONFERENCE ON COMPUTER AND KNOWLEDGE ENGINEERING (ICCKE)	27 Nov 2023
Academic Experience	
Research Assistant	
HUMAN-ROBOT INTERACTION LABORATORY UNIVERSITY OF NEW BRUNSWICK	September 2023 - Present
Supervisor: Daniel J. Rea Laboratory Member (Researcher, Co-Manager)	
ROBOTICS LABORATORY SHAHID BEHESHTI UNIVERSITY	Summer 2021 - Present
Supervisor: Armin Salimi-Badr	Summer 2021 - Fresent
Teaching Assistant	
Introduction to Game Developement University of New Brunswick	Winter 2024
Instructor: Daniel J. Rea	
Teaching Assistant	
INTRODUCTION TO ALGORITHMS DESIGN SHAHID BEHESHTI UNIVERSITY	Fall 2022
Instructor: Ramak Ghavamizadeh Instructor	
Introduction to Robotics	Summer 2022
Robotics Laboratory, Computer Science and Engineering Faculty	Sullillei 2022
Teaching Assistant	
DIGITAL LOGIC CIRCUITS	Spring 2019
Instructed by Professor Hamidreza Mahdiani	
Projects (Chronological Order)	
Avatar Robots to Mitigate Social Biases	
RESEARCH PROJECT PROFESSOR DANIEL J. REA	Summer 2024
Inducing Empathy, A Method of Integrating Social Interfaces to Teleoperation	
[more info]	
MASTER THESIS SUPERVISOR: PROFESSOR DANIEL J. REA	Winter 2024
Overcoming Phobias Through Virtual Reality Exposure	
Hobby Project	Winter 2024
Implementation and Analysis of Binary Index Trees for Historical Blockchain	
Databases [more info]	
BIG DATA SYSTEMS PROFESSOR SUPRIO RAY	Winter 2024
Comparing Relative Aim Control Schemes with Mouse and Controller with Aim	
Assistance Techniques And Gyrosensor	- 4
Human-Centered Interface Design Professor Daniel J. Rea	Fall 2023
Implementation of Encoder-Decoder LSTM Network Towards Synthetic	
Summarized Titles From Indian News Reports Natural Languages Processing Professor Paul Cook	Fall 2023
Likelihood Calculation for Student Success Based on Preprepared Dataset	FUII 2023
Machine Learning and Data Mining Professor Francis Palma	Fall 2023
Learning Hand-Written Digit Patterns Using Robotic Arms (Bachelor Thesis	T GIT 2025
Project) [more info]	
SUPERVISOR: PROFESSOR ARMIN SALIMI-BADR / REFEREE: PROFESSOR YASER SHEKOFTEH	Summer 2022
Heater/Cooler Control System (Course Project)	
EMBEDDED AND REAL-TIME SYSTEMS PROFESSOR SEYED-HOSEIN ATTARZADEH-NIAKI	Fall 2021
Classification of Different Car Brand Models (Course Project)	
FUNDAMENTALS OF COMPUTATIONAL INTELLIGENCE PROFESSOR HAMED MALEK	Fall 2021
Simple Bitcoin Estimator Using Regression (Course Project)	
FUNDAMENTALS OF COMPUTATIONAL INTELLIGENCE PROFESSOR HAMED MALEK	Fall 2021
Survivability Likelihood of Titanic Passengers Data Analysis (Course Project)	
FUNDAMENTALS OF COMPUTATIONAL INTELLIGENCE PROFESSOR HAMED MALEK	Fall 2021
E-Puck Robot Wall Following and Obstacle Avoidance (Course Project)	
PRINCIPLES OF ROBOTICS PROFESSOR ARMIN SALIMI-BADR	Spring 2021
Analysis and Optimization of the Shazam Algorithm (Course Project)	
MATLAB PROGRAMMING WORKSHOP PROFESSOR YASER SHEKOFTEH	Fall 2020
A Clone of Skype's Background Blurring on Webcams (Course Project)	E #2222
COMPUTER VISION PROFESSOR ALIREZA TALEBPOUR	Fall 2020

An Implementation of Decaf Compiler (Course Project) COMPILER DESIGN PROFESSOR MOHAMMAD REZA BAHRAMI Fall 2020 Automated Scheduling and Course Selection for Students (Course Project) ARTIFICIAL INTELLIGENCE PROFESSOR MEHRNOUSH SHAMSFARD Fall 2019 Eight Puzzle Platform and Solver (Course Project) ARTIFICIAL INTELLIGENCE PROFESSOR MEHRNOUSH SHAMSFARD Fall 2019

References _

Professor Daniel J. Rea

ASSISTANT PROFESSOR, UNIVERSITY OF NEW BRUNSWICK

• Email: daniel.rea@unb.ca

Professor Armin Salimi-Badr

Assistant Professor, Shahid Beheshti University

• Email: a_salimibadr@sbu.ac.ir