

Behnam JabbariZadeh — CV

Western University

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RESEARCH INTERESTS

- Data Science
- Machine Learning
- Artificial Intelligence
- Medical Robots
- Internet of Things
- Control Theory

EDUCATION

- **Master of Science** September, 2021– now
Western University London-Canada
 - Computer Science
 - Overall GPA: 91.75/100 (4/4)
- **Bachelor of Science** September, 2015– October, 2020
Amirkabir University of Technology Tehran-Iran
 - Electrical Engineering
 - Last 3 semesters GPA: 18.57/20 (4/4)
 - Overall GPA: 18.26/20
- **Diploma of Mathematics and Physics** 2011–2015
Allame Helli High School (National Organization for Development of Exceptional Talents) Tehran-Iran
 - Mathematics and Physics
 - GPA: 19.38/20 (4/4)





PUBLICATIONS







- Marufkhani H., **Jabbari Zadeh B.**, Hashemirad S. and Sharifi I.. "Sliding Mode Controller via Extended Kalman Filters For Mobile Robot" International Conference on Robotics and Mechatronics (ICROM 2019), Sharif University of Technology, Tehran, Iran.

HONORS

- Won Western Graduate Research Scholarship for Master of Computer Science 2021
- Offered admission to M.Sc. program in Control, AUT, Tehran, Iran. 2019
- Ranked 4th in Electrical Engineering, Control Group, among more than 40 students, AUT, Tehran, Iran. 2021
- Identified as an Exceptional Talent in AUT. 2015-2021
- Ranked within top 0.3% in the national entrance exam for B.Sc. degree among 182000 participants. 2015
- Ranked 1st among 82 high school students for two years. 2012 and 2013
- Ranked 4th in team section of cities math competition in Iran. 2011
- Ranked 3rd among 30 teams in Hashtroudi math competition as youngest team. 2011
- Ranked 1st among 6 NODET schools (Sampad) in Iran with 98/100 in Karsough math competition.

Teaching Experience

-  Computer Science Fundamentals II TA and Lab instructor [January – April 2022]
- Western University
-  Computer Science Fundamentals I TA and Lab instructor [September – December 2021]
- Western University
-  Instructor of Linear Control Lab [September 2020 – January 2021]
- Amirkabir University of Technology
-  Image Processing Teacher [September 2020 – January 2021]
- Amirkabir University of Technology

-  Instructor of Computational Intelligence Lab [September 2019 – January 2021]
 - Amirkabir University of Technology
-  Python Programming Teacher [January – March 2020]
 - Fira Education Academy
-  C++ Programming Teacher [January – March 2020]
 - Fira Education Academy
-  Robotics Teacher [September 2019 – March 2020]
 - Fira Education Academy
-  Instructor of Digital Control Lab [January – June 2019]
 - Amirkabir University of Technology
-  TA of Digital Control Course [January – June 2019]
 - Amirkabir University of Technology
 - Instructor: Prof. H.A.Talebi







SELECTED PROJECTS



- Batch effect assessment method master's project [2022]
 - Designing a novel batch effect assessment method for sc-RNA data
- Implementing multiple TD reinforcement learning algorithms for cart-pole environment. Reinforcement Learning Course [2022]
- Implementing deep neural networks like Resnet50 and VGG16 for brain tumor detection from MRI. Machine Learning course [2021]
- Acoustic Encoder Senior Project [2020]
 - Assisting Dr. F. Anooshe on innovative concept of acoustic encoder and building it
- IoT health module Instrumentation Course [2017]
- Designing and Implementing a DC Motor Driver Industrial Control Course [2019]
- Building and controlling Wireless Dimmer Internship Project [2019]
- Implementing a protocol for malfunction of an IoT devices in a mesh Industrial Internet of Things Course [2019]

Extra Projects

- Remote control Vertical Take-Off and Landing (VTOL) model aircraft Modern Control Course [2019]
- Designing a Safe Communication Internship Third Project [2019]
- Building a Pick and Place Robot and Calculating Cinematic Advanced Robotics Course [2019]
- Electric Vehicle Charging Station Optimization [2020]
- Controlling of a Flexible Single Link Robot Arm Linear Control Course [2019]
- Fuzzy Decision Making for Two Traffic Lights Computational Intelligence Course [2018]
- Fire Stations Best Location Design Artificial Intelligence Course [2018]
- Changing a Program from C++ to Arm Assembly Language Computer Architecture and Microprocessors [2018]
- Controlling an Unmanned Ground Vehicle (UGV) Digital Control Course [2018]
- Music algorithm for Direction Of Arrival (DOA) estimation Linear Algebra Course [2018]
- Controlling a LCD monitor with FPGA board Logic Circuit Lab [2016]

VOLUNTEER WORK

-  Electrical Engineering Innovation Center [August 2019 – September 2021]
 - Secretary of the innovation center
-  International Conference on Protection and Automation of Power Systems [December 2019]
 - Executive assistant
-  The 7th RSI International conference on Robotics and Mechatronics [October 2019]
 - At Sharif University of Technology
 - Executive assistant
-  Fira Robo World Cup [February 2019]
 - Member of the technical referee team
-  The 6th RSI International conference on Robotics and Mechatronics [October 2018]
 - At K. N. Toosi University
 - Executive assistant
-  Luxin Tech (internship) [July – September 2018]

- R&D team
-  The 9th Power Electronics, Drive Systems and Technologies Conference [February 2018]
 - At Amirkabir University of Technology
 - Member of security team
-  The 5th RSI International conference on Robotics and Mechatronics [October 2017]
 - At Amirkabir University of Technology
 - Member of secretariat team

TECHNICAL AND PERSONAL SKILLS

Programming	IDEs/Tools	Hardwares	Personal Skills
<ul style="list-style-type: none"> ○ Python ○ R ○ C/C++ ○ Matlab ○ Java ○ Assembly ○ VHDL ○ HTML5/CSS3 ○ L^AT_EX 	<ul style="list-style-type: none"> ○ Jupyter notebook ○ PyCharm ○ Visual Studio ○ Matlab (Simulink) ○ Keil5 ○ STM32 Cube MX ○ Xilinx ○ Proteus ○ Altium Designer ○ Photoshop 	<ul style="list-style-type: none"> ○ Raspberry pi ○ ARM (STM32) ○ Arduino ○ PLC ○ NodeMCU ○ ESP 8266 chip ○ 3D printer 	<ul style="list-style-type: none"> ○ Team work ○ Problem solving ○ Leading ○ Public speaking ○ Responsibility

LANGUAGE SKILLS

- Persian Native
- English Fluent

! Further information, and Proofs are available upon Request