Behnam JabbariZadeh — CV

Western University

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RESEARCH INTERESTS

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

EDUCATION

● [regular] **Master of Science**   September, 2021– now
  Western University   London-Canada
  - Computer Science
    · Overall GPA: 91.75/100 (4/4)

● [regular] **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

● [regular] **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

● [regular] 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

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

Teaching Experience

● [regular] Computer Science Fundamentals II TA and Lab instructor   [January – April 2022]
  - Western University

● [regular] Computer Science Fundamentals I TA and Lab instructor   [September – December 2021]
  - Western University

● [regular] Instructor of Linear Control Lab   [September 2020 – January 2021]
  - Amirkabir University of Technology

● [regular] Image Processing Teacher   [September 2020 – January 2021]
  - Amirkabir University of Technology

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

SELECTED PROJECTS

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

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

VOLUNTEER WORK

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

- R&D team

●[regular] The 9th Power Electronics, Drive Systems and Technologies Conference [February 2018]
- At Amirkabir University of Technology
- Member of security team

●[regular] 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
- ●[regular] Python
- ●[regular] R
- ●[regular] C/C++
- ●[regular] Matlab
- ●[regular] Java
- ●[regular] Assembly
- ●[regular] VHDL
- ●[regular] HTML5/CSS3
- ●[regular] LaTeX

IDEs/Tools
- ●[regular] Jupyter notebook
- ●[regular] PyCharm
- ●[regular] Visual Studio
- ●[regular] Matlab (Simulink)
- ●[regular] Keil5
- ●[regular] STM32 Cube MX
- ●[regular] Xilinx
- ●[regular] Proteus
- ●[regular] Altium Designer
- ●[regular] Photoshop

Hardwares
- ●[regular] Raspberry pi
- ●[regular] ARM (STM32)
- ●[regular] Arduino
- ●[regular] PLC
- ●[regular] NodeMCU
- ●[regular] ESP 8266 chip
- ●[regular] 3D printer

Personal Skills
- ●[regular] Team work
- ●[regular] Problem solving
- ●[regular] Leading
- ●[regular] Public speaking
- ●[regular] Responsibility

LANGUAGE SKILLS

●[regular] Persian   Native
●[regular] English   Fluent

❶ **Further information, and Proofs are available upon Request**