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 Hashtroodi 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
- ○ Python
- ○ R
- ○ C/C++
- ○ Matlab
- ○ Java
- ○ Assembly
- ○ VHDL
- ○ HTML5/CSS3
- ○ LaTeX

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

Hardwares
- ○ Raspberry pi
- ○ ARM (STM32)
- ○ Arduino
- ○ PLC
- ○ NodeMCU
- ○ ESP 8266 chip
- ○ 3D printer

Personal Skills
- ○ Team work
- ○ Problem solving
- ○ Leading
- ○ Public speaking
- ○ Responsibility

LANGUAGE SKILLS

- ○ Persian   Native
- ○ English   Fluent

❗ Further information, and Proofs are available upon Request