Arghavan Dalvand

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Education

2022–2025 :	**Master of Engineering, Robotics**, *Università di Genova (Unige)*, GPA: 90/110.
2016–2021 :	**Bachelor of Engineering, Information Technology**, *Qazvin Islamic Azad University (QIAU)*, GPA: 15/20.

Research Experience

Oct,2024 – Dec,2025	***Master Thesis Research***, *Istituto Italiano Di Tecnologia (IIT)*, Genoa, Italy. Integration of Smart Crutches with the TwinMED Exoskeleton and Stability Monitoring.
Supervisors :	Dr. Christian Vassallo, Dr. Nicolo Boccardo
June,2017 – 2021	***International Robotics Competitions***, *Mechatronics Research Laboratory (MRL)*, Qazvin Azad University, Iran. Between 2017-2021, I have participated in international Robotics competitions as programmer of MRL robotic group; Japan, Thailand, Australia, and Iran.
Supervisor :	Dr. Aras Adhami-Mirhosseini
2015 – 2021	***Research and Development***, *Mechatronics Research Laboratory (MRL)*, Qazvin Azad University, Iran. Software development, Robot Environment Simulator Design (OpenGL and GL#), High Level Robot Strategy Development (C#), Mobile Robot Path-Planinng, Project Managment (GitHub), and so on.
Supervisor :	Dr. Aras Adhami-Mirhosseini

Project Titles

Oct,2024 – Dec,2025	***Using Smart Crutches to Monitor Stability***, *Istituto Italiano Di Tecnologia (IIT)*, Genoa, Italy. ○ Synchronized TwinMED exoskeleton and Smart Crutches via BLE communication. ○ Implemented stability monitoring using Stability Margin and XCoM calculations. ○ Analyzed gait phases and identified stability patterns in SCI patients.
2017 – 2020	***Soccer Robots Design and Control***, *Mechatronics Research Laboratory (MRL)*, Qazvin Azad University, Iran. ○ I was the programmer of MRL RoboCup team. I have designed, programmed, and implemented the robots movement strategies, decision making, communications, and path planning; Report-1, Report-2, and Report-3.
2021	***Wireless Communication of Mobile Robots***, *Mechatronics Research Laboratory (MRL)*, Qazvin Azad University, Iran. ○ I have developed a data packet distribution algorithm to send and receive data between mobile robots.

Publications

Conference Team Description Papers

2020	**Dalvand, A., et al.**, *MRL Small Size Soccer Extended Team Description (Extended Team Description Paper)*, RoboCup 2020 – Small Size League.
2019	**Dalvand, A., et al.**, *MRL Small Size Soccer Extended Team Description (Extended Team Description Paper)*, RoboCup 2019 – Small Size League.

2018	**Dalvand, A., et al.**, *MRL Small Size Soccer Extended Team Description (Extended Team Description Paper)*, RoboCup 2018 – Small Size League.

Fellowships & Awards

2020	***Ranked 3rd IEEE International RoboCup League***, **Sydney, Australia.** I was the robot programmer in MRL robotic group and won the title in small size robots league.
2018	***Ranked 1st Iran-Open Robotic Competition***, **Tehran, Iran.** I was the robot programmer in MRL robotic group and won the title in small size robots league.
2017	***Ranked 1st Asia Pacific RoboCup Competition***, **Bangkok, Thailand.** I was the robot programmer in MRL robotic group and won the title in small size robots league.
2016-2021	***Scholarship Award***, **Qazvin Islamic Azad University, Qazvin, Iran.** I was the winner of scholarship award for all of the semesters.

Computer skills

Programming Languages	**MATLAB, C#, C++, Python, OpenGL, GL#**.
Biomechanics & Robotics	**Kinematic Analysis, Gait Analysis, IMU & Force Sensor Integration, Bluetooth Communication**.
General	**Latex, Git**.

Languages

Languages	**Persian:** Native ▪ **English:** Fluent ▪ **Italian:** Beginner

Personality, Interests, and Hobbies

Personality	A self-motivated student with demonstrated technical expertise growing programming with strong teamwork and interpersonal skills.
Interests	Reading Novels, swimming, and Yoga

Referees

Dr. Christian Vassallo
Senior Technician
Rehab Technologies
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