



Arya Saboury

Languages

Persian: Native

English proficiency tests: Duolingo overall 120

Germany: A1

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Ph.D. Student in Electrical and Electronic Engineering

Eastern Mediterranean University- Graduate Research Assistant

Full-time assistant at the Department of Mathematics



Summary

- 10 years of experience in electronic hardware design for mobile robots.
- 8 years of experience as a robotics lecturer.
- 6 years of experience in Project and Product management.
- Worked in topics such as mobile robotics, social robotics, human and robot interaction, sensor fusion, embedded systems programming, and design and SLAM.
- Researched and studied topics such as **project and product management**.
- Interested in research, teamwork, and educational activities, promoting science, and writing applied articles.
- Science journalist and science promoter in the newspapers, magazines, radio, and tv. (Former editorial board with many media certificates)



Education

■ PhD Student in Electrical and Electronic Engineering

University: Eastern Mediterranean University, Cyprus, From 2021

■ Master of Mechatronics engineering

Branch: Mechatronics

University: Islamic Azad University of Qazvin, Iran- 2011 - 2015

Thesis: Construction a Mobile robot, Wireless Glove, and a Glasses which is used to Control robot based on Embedded Systems via Sensor Fusion concepts.

■ Bachelor of Electronic engineering

Branch: Electronics

University: Islamic Azad University of Qazvin, Iran- 2006 - 2010

Final Project: Design Intelligence Car Robot for Smart City Competition.



Researches and Publications

✓ TL-OSR, a low-cost mobile robot with open-source technology based on sensor fusion

Publisher : IEEE

Date : January 2014

Link :

<https://ieeexplore.ieee.org/document/6990911>

✓ Path tracking and obstacle avoidance of an FPGA-based mobile robot (MRTQ) via fuzzy algorithm

Publisher : IEEE

Date : August 2013

Link :

<https://ieeexplore.ieee.org/document/6675628>

✓ + 3 Conference Article with the Persian language in Iranian International Conference and Symposium: (ICROM 2013, CLAWAR 2011) and IranOpen RoboCup Symposium (RIOS 2013).

❖ Construction a Mobile robot, Wireless Glove, and a Glasses which is used to Control robot based on Embedded Systems via Sensor Fusion concepts

Publisher : Islamic Azad University (**my thesis**)

Date : September 2015

Description: TL-OSR+ is a mobile robot based on open-source software and hardware technologies. **Full description is given in the cover letter.**



Experience

■ Research Associate, Project and Product Manager (Full-time job)

University : Human and Robot Interaction Laboratory (TaarLab), University of Tehran

- From September 2017 – September 2021 (Project and Product Manager)
- From: (September 2015 – September 2017: Project Manager and Research Associate)
- <http://old.taarlab.com/en/> <https://taarlab.com/>

Tasks and Achievements :

- Research Assistant
- Lecturer
- Director of Education
- Managing projects and teams
- Design and Programming Electronics and Embedded systems
- Design strategies and roadmaps
- Formation of executive teams
- Management of idea generation processes
- Design and analysis of weekly, monthly, and annual reports
- Identify, develop and evaluate marketing strategies
- Identify customer needs
- Negotiation to organizations
- Check the project schedule and execution procedure

■ Lecturer and member of Tehran institute of technology in robotics group (2009-2011) (Part-time job)

■ Researcher/Electronics designer (Part-time job)

University : Mechatronics Research laboratory (MRL), Islamic Azad University, Qazvin Branch

September 2006 - October 2009

Tasks and Achievements:

- @Home team member, work on @Home Robots for RoboCup competitions, Electronics Designer & Programmer.



Skills

- **C/C++** (Eclipse IDE, CodeVision AVR, Microsoft Visual Studio, Keil, C51, Atmel Studio)
- **Python** (Anaconda)
- **Image Processing** (ImagJ, Matlab)
- **Control and Computational** (Matlab)
- **Robotics** (Webots, V-REP, Matlab Robotics Toolbox by Peter Corke)
- **Electronics** (Altium Designer, Proteus, Fritzing)
- **Microcontroller** (AVR, 8051-52)
- **SBC** (Arduino Family, Raspberry Pi)
- **FPGA** (Altera Cyclone III, Altera CPLD by Quartus Software, Xilinx CPLD)
- **Miscellaneous** (LaTeX, Microsoft Office, Photoshop, Snagit, Camtasia, Linux)

Familiar with Gazebo simulator, ROS and SOLIDWORKS (I am familiar with them in the form of collaboration in research and robotics teams, I have not personally done an independent project with them, I have the ability to work with them)



Honors

- **Media/Student/Executive Committee Member of International Conference in Robotics and Mechatronics (ICRoM) from 2013-2021**
- **Innovation and Business League, Chair and Technical Committee member of Fira RoboWorldCup 2019 in South Korea.**
Date : August 2019
- **Gold Medal in EUROINVENT, Romania, 2016**
- **3 rd Place in Senior Demo league, RoboCup Iran Open 2013.** Date : April 2013
- **Best Teacher in Robotics Group, Tehran Institute of Technology.** Date : March 2011
- **Technical Committee member of AUTCUP2010 (Robotic competition).** Date : February 2010
- **3 rd Place in Intelligent Vehicle league, First Competition of Robo War.** Date : September 2010
- **Technical Committee of national and international Robotics competition from 2009 to 2020**



Certificates

- **The 2018 CSI Symposium on Real-Time and Embedded Systems and Technologies**
Institute: University of Tehran and IEEE
Date : February 2018
- **Human and Robot Interaction Course**
Institute : Human and Robot Interaction Laboratory of University of Tehran and IEEE Iran Section
Date : February 2017
- **Participation in Robocup Iran Open/Deminer Autonomous league**
Institute : Islamic Azad University
Date : April 2011
- **Certified Technical Trainer (CTT+)**
Institute : Tehran Institute of Technology
Date : Apr 2009
- **Workshop on Entrepreneurship in the Field of Internet of Things**
Institute: Sharif University of Technology
Date : March 2018
- **Robot Safety: Industrial to Medical application, Workshop on Mobile Robotics and Assistive Technologies**
Institute : CLAWAR 2011 and Iranian Scientific Society of Mobile Robots
Date : December 2011
- **The 12th RoboCup World Championship**
Institute : RoboCup Federation
Date : July 2008
- **Project Management Body of Knowledge standard PMBOK2008**
Institute: Tehran Institute of Technology
Date : Aug 2008



Society

Robotics Society of Iran (RSI) (Public Relation Committee Chair, Executive Member, Student Member and Volunteer) (2012-2021) www.icrom.ir

Reference:

Prof. Dr. Hamid D. Taghirad, Faculty of Electrical Engineering, K. N. Toosi Univ. of Technology.

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References

- Prof. Dr. MUSTAFA KEMAL UYGUROĞLU, Department of Electrical & Electronic Engineering, Eastern Mediterranean University. Email: mustafa.uyguroglu@emu.edu.tr
- Assoc. Prof. Dr. Mehdi Tale Masouleh, School of Electrical and Computer Engineering, University of Tehran (My CEO and my master of science thesis supervisor). Email: m.t.masouleh@ut.ac.ir
- Assoc. Prof. Dr. Ahmad Fakharian, Faculty of Electrical, Biomedical and Mechatronics Engineering, Islamic Azad University of Qazvin. Email: ahmad.fakharian@qiau.ac.ir, ahmad.fakharian@gmail.com