

YASHAR ZAFARI HAQQI

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Education

Sharif University of Technology

B.Sc. in Mechanical Engineering, CGPA:18.16/20 (3.85/4).

Sep. 2020 – Present

Tehran, Iran

Shahid Madani Exceptional Talents(NODET) High School

Mathematics & Physics, GPA:19.73/20 (4/4).

Sep. 2017 – Jun. 2020

Tabriz, Iran

Research Interests

- Robotics
- Grasping & Manipulation
- Learning-Based Control
- Haptics

Academic Experience

Undergraduate Research Assistant

Dec. 2023 – Present

Social & Cognitive Robotics Lab, Sharif University of Technology

- Working on “*Robotic Multi-Finger Dexterous Object Grasping Using Deep Reinforcement Learning*” as my B.Sc. thesis under the supervision of Prof. Alireza Taheri.

Teaching Assistant

Feb. 2022 – Present

Department of Mechanical Engineering, Sharif University of Technology

- **Robotics**, instructed by Prof. Saeed Behzadipour. Sep. 2024 - Present
- **Dynamics of Machinery**, instructed by Prof. Saeed Behzadipour. Jan. 2024 - Present
- **Aerial Robotics**, instructed by Dr. Amin Talaeizadeh. Feb. 2024 - Jul. 2024
- **Dynamics**, instructed by Prof. Alireza Taheri. Sep. 2023 - Jan. 2024
- **Statics**, instructed by Prof. Alireza Taheri. Feb. 2022 - Jul. 2022

Work Experience

Iran Tractor Manufacturing Company (ITMCO) 📍

Jun. 2023 – Sep. 2023

Summer Internship.

Tabriz, Iran

- Worked in Electronic Maintenance & Repair of CNC Machines Group. Helped with diagnosis and solution of CNC machine errors. Worked with industrial servomotors, controllers, and sensors; Gained hands-on experience in PLC.

Jewelry Manufacturing Experience

Jun. 2017 – Sep. 2021

Part-Time Apprenticeship.

Tabriz, Iran

- Learned academic and technical aspects of jewelry manufacturing, including melting, welding, and machining. Gained work experience in a highly technical workshop. Earned an international professional jeweler certificate.

Projects

Controller Design for Ball & Beam System 📍 | MATLAB, Simulink

Winter 2023

“Fundamentals of Automatic Controller Design” course project.

- Designed PID controllers for 2-D Ball and Beam System. Modeled and simulated in Simulink for fine-tuning.

Activity Recognition Hat 📍 | Arduino, MATLAB

Winter 2023

“Measurement and Control Systems” course project.

- Developed a hat for walking and running recognition using sensors. Implemented logistic regression on training data.

Design, Modeling, and Control of a Quadcopter 📍 | MATLAB, Simulink, Control System Design Toolbox Spring 2023

“Aerial Robotics” course project.

- Designed quadcopter for desired flight time and abilities. Modeled and simulated in Simulink for flight test.

EEG Signals Study for Bio-marker for Alzheimer Disease 📍 | MATLAB, Simulink, EEG-Lab

Spring 2023

“Signals and System” course project.

- Processed raw EEG data using EEG-Lab. Analyzed results to introduce an early bio-marker via olfactory stimulation.

Relevant Coursework

- Robotics
- Signals & Systems
|Dep. of Elec. Eng.
- Automatic Control
- Aerial Robotics
- Fund. of Controller Design
- Linear Algebra
|Dep. of Comp. Eng.

Technical Skills

Programming: MATLAB, Python, C, C++, L^AT_EX, XML.
Simulation: Simulink, Simscape, MuJoCo

Design: Solidworks, AutoCAD.
Frameworks: ROS2, EEG-LAB, Arduino, GitHub, Ubuntu.

Honors, Awards, & Certificates

National Olympiad - Mechanical Engineering Ranked 5th and earned a fellowship to be admitted to any national university without entrance exam.	October 2024
TOEFL iBT Overall: 112/120 , Reading: 29, Listening: 30, Speaking: 24 Writing: 29.	October 2024
National Undergraduate University Entrance Exam <ul style="list-style-type: none">Ranked 333th among more than 155,000 participants in Math-Physics group.Ranked 97th among more than 174,000 participants in Foreign Languages group.	Summer 2020
Professional Jeweler Certificate Iran Technical & Vocational Training Organization.	Issued 2021 – Expires 2026
First Aid Certification Iranian Red Crescent Committee.	Issued 2023
Course Completion Certificate (Level of Proficiency: C2) English Department, Iran Language Institute (ILI)	Issued 2016
Professional Athlete Played in state’s and schools’ badminton teams, captained the teams several times.	2013-2020