

Atahan Çaldır

Midland, TX 79705

Green Card holder (Permanent resident of the United States)

atahan.caldır@ozu.edu.tr | atahancaldır.github.io | linkedin.com/in/atahancaldır | +1 (954) 330-7293

EDUCATION

Özyeğin University

Bachelor of Science, Computer Science

- GPA: 3.81/4.00

Istanbul, Turkey

September 2018 - February 2023

EXPERIENCE

AST SpaceMobile

Software Engineer

- Working on the development and implementation of BlueBird LEO satellite constellation's software and electronical tests and the automation processes. The aim of the LEO satellite constellation is to provide smartphones with space-based cellular broadband network without a need of an external equipment.

Midland, TX

July 2023 - Present

Özyeğin University

Undergraduate Research Assistant

- Worked with Dr. Mehmet Özsoy and Dr. Ata Can Bertay on global cryptocurrency statistics

Istanbul, Turkey

October 2021 - July 2022

University of Cambridge

Research Intern

- Worked remotely in the AFAR Lab under the supervision of Prof. Hatice Güneş on a human-robot interaction project in which ROS (Robot Operating System) is used to develop an experiment environment for Pepper Robot

Cambridge, UK

July 2021 - September 2021

Özyeğin University Intelligent Systems Lab

Research Intern

- Worked with Dr. Reyhan Aydoğan on a human-robot negotiation project in which I was funded by Scientific and Technological Research Council of Turkey (TUBITAK) with the "TUBITAK STAR Program" grant

Istanbul, Turkey

February 2021 - June 2021

Özyeğin University

Undergraduate Research Assistant

- Worked with Dr. Mehmet Özsoy on applications of NLP in Economics

Istanbul, Turkey

May 2020 - January 2021

HONORS & AWARDS

- Özyeğin University, High Honors List 2019 - 2023
- OBSS, University Specific 1st Prize in CodeMaster Hackathon March 2022
- Yandex, Honor Team Award in MusicHackOzyegin Hackathon among +14 teams July 2020
- Alternatif Bank, 1st Prize in Unobstructed Banking Hackathon among +9 teams March 2020
- Özyeğin University, Undergraduate Placement Exam Entrance Scholarship (100%) 2018

PROJECTS

OzU Rover Team

Technical Team Leader

- Managed CS, EEE, ME division members with agile development techniques to work collaboratively
- Developed the team's 5th generation Mars rover's ("Hope") software and electronic parts of the science module for the University Rover Challenge (URC) 2020 organized by The Mars Society in USA (Qualified for the finals) (Challenge canceled due to COVID-19 pandemic)

Istanbul, Turkey

September 2019 - April 2020

Software Engineer

- Developed different modules of the team's 4th generation Mars rover prototype, Theia II
- Ranked 13th among 56 teams in European Rover Challenge (ERC) 2019 organized by European Space Agency (ESA) in Poland

November 2018 - April 2020

PUBLICATIONS

- Axelsson, M., Churamani, N., **Çaldır, A.**, & Gunes, H. (2022). “Participant Perceptions of a Robotic Coach Conducting Positive Psychology Exercises: A Systematic Analysis”. <https://doi.org/10.48550/arXiv.2209.03827>
- Churamani, N., Axelsson, M., **Çaldır, A.**, & Gunes, H. (2022). “Continual Learning for Affective Robotics: A Proof of Concept for Wellbeing”. <https://doi.org/10.48550/arXiv.2206.11354>
Paper presented at 10th International Conference on Affective Computing and Intelligent Interaction (ACII) 2022
- Gökay, H., Çelik, N., Savaşlı, A., **Çaldır, A.**, Yıldırım, S., & Bebek, O. (2019). “The Comparative Analysis of the Strategies Used in Planetary Rovers’ Autonomous Locomotion”
Paper presented at Turkey Robotics Conference (ToRK) 2019

EXTRACURRICULAR ACTIVITIES

- Board Member, OzU Interdisciplinary Thought Club, Özyeğin University 2020 - 2021
- Speaker, Turkish Technology Team Foundation 2019

SKILLS

Languages: Turkish (Native), English (Fluent), German (Beginner)

Programming Languages: Python (+8 years), C/C++, C#, Java, SQL, HTML

Frameworks: Robot Operating System (ROS), ROS 2, Pandas, OpenCV, Keras/Tensorflow, PyTorch, Scikit-learn, Selenium, PyQt5, unittest, Pytest, WPF, WinForms

Tools: Git/GitHub, Docker, Webots, Choregraphe, Qt Designer

Others: Socket programming, GUI programming, Arduino programming, RESTful APIs, Multithreading, Communication protocols (UART, SPI, I²C, etc.), UNIX/Linux, Web crawling, CI/CD, MVC & MVVM development

Soft Skills: Leadership, Agile development, Critical thought, Communication, Team work