

Ahmet Kağan Altay

BS Mechanical Engineering @ Politecnico di Torino

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Profile

I am an enthusiastic mechanical engineering student who wants to develop personal abilities and explore potential career fields in autonomy, planning, learning and control for autonomous systems (unmanned aerial vehicles, self-driving cars), preferably in automotive, robotics, and aerospace.

Education

- **Politecnico di Torino**
Bachelor of Science – BS, Mechanical Engineering
Jun 2023 - 2026 · Turin, Italy
- **Kocaeli Fen Lisesi**
Jan 2019 – Jun 2023 · Kocaeli, Turkey

Skills & Abilities

- Matlab
- 3D Modeling - SolidWorks, Fusion 360
- Web Design - HTML, CSS
- Python, C++
- Computer Vision - OpenCV
- Robotics simulations - PyBullet
- Project Management
- Teamwork
- Public Speaking
- Collaboration

Honors & Awards

Regeneron ISEF 2023 Finalist - Special Award Winner - Engineering Technology

Issued by Society for Science · May 2023 · Dallas, US

Project: DAIKA

- First award of 'Mawhiba' sponsored by King Abdulaziz & his Companions Foundation for Giftedness and Creativity
- Full Scholarship from King Fahd University of Petroleum and Minerals (KFUPM)

Silver Medal at Buca International Music Science Energy and Engineering Fair (IMSEF) 2022

Issued by Buca Science and Art Center · Nov 2022

- Silver medal winner in energy&engineering at Buca International Music, Science and Engineering Fair
- Selected as the Turkish representative in the Infomatrix International Computer Project Competition which will be held in Ecuador by SOLACYT Latin American Society for Science and Technology (June 2023)

- Selected as the Turkish representative in the MILSET Expo-Sciences Exhibition which will be held in Sinaloa, Mexico by MILSET (October 2023)

2nd Place at Teknofest Technology for Humanity Competition

Issued by Teknofest · Sep 2022

- 2nd place winner in technology for humanity competition at Teknofest aerospace and technology festival

2nd Place at TUBITAK 2204-A Research Projects Competition in Turkey- Engineering Design

Issued by TÜBİTAK (Scientific and Technological Research Council of Turkey) · Jun 2022

- 2nd place winner in Engineering Design at 53rd High School Students Research Projects Final Competition

1st Place at TUBITAK 2204-A Research Projects Competition in Istanbul/Asia- Engineering Design (2022)

Issued by TÜBİTAK (Scientific and Technological Research Council of Turkey) · Mar 2022

- 1st place winner in Engineering Design at 53rd High School Students Research Projects Istanbul/Asia Regional Competition

1st Place at TUBITAK 2204-A Research Projects Competition in Istanbul/Asia - Engineering Design (2021)

Issued by TÜBİTAK (Scientific and Technological Research Council of Turkey) · Mar 2021

- 1st place winner in Engineering Design at 52nd High School Students Research Projects Istanbul-Asia Regional Competition

Projects

DAIKA: New Gait Controller Design for Enhanced Stability in Complex Legged Systems Jan 2021 - May 2023

DAIKA is an application of new approaches to high efficiency problem solving through quadrupedal locomotion. This project presents a novel gait controller method, which generates real-time dynamic responses to efficiently operate complex legged systems.

Digital Physical Suitability Measurement Device (In Cooperation with Arçelik Garage)

Apr 2019 - Mar 2020

Digital Physical Suitability Measurement Device or Digital Physical Activity Fitness Device is an Arduino based device which is developed for making the process of tracking physical properties of health easier and faster. This project is under development in cooperation with Arçelik Garage R&D Center and Kocaeli Science High School. Digital Physical Suitability Measurement Device or Digital Physical Activity Fitness Device is an Arduino based device which is developed for making the process of tracking physical properties of health easier and faster. This project is under development in cooperation with Arçelik Garage R&D Center and Kocaeli Science High School.

FEDRO

Jan2019 – Mar 2020

FEDRO is a service robot that utilizes gaze tracking technology to allow controlling by individuals need physical support.

Languages

- **Turkish** Native
- **English** Full professional proficiency
- **Italian** Limited working proficiency

Turin, 11.10.2024