

Ahmet Kagan Altay

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Summary

Mechanical Engineering student passionate about autonomous systems and robotics, with practical experience in UGVs and legged locomotion platforms. Skilled in control systems, simulation modeling, and embedded development, seeking to contribute innovative solutions in robotics and automation sectors.

Education

Politecnico di Torino	Torino, IT
Bachelor of Science in Mechanical Engineering	Expected, June 2026
Kocaeli Fen Lisesi	Kocaeli, TR
High school diploma in Science	June 2023

Honors and Awards

- **Regeneron ISEF 2023 Finalist - Special Award Winner** in Engineering technology | Dallas, US, 2023
 - 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)
- **TUBITAK 2204-A Research Projects Competitions – Awards in Engineering Design**
 - 2nd place at 53rd National Finals, 2022
 - 1st places at 52nd & 53rd İstanbul/Asia regional finals, 2021-2022
- **Silver Medal, Buca International Music Science Energy and Engineering Fair (IMSEF)**, Nov 2022
- **2nd Place, Teknofest Technology for Humanity Competition**, Sep 2022

Projects

- **DAIKA: Novel Gait Controller Design For Complex Legged Systems** - Designed and tested a real-time dynamic gait controller to enhance legged robot stability.
- **FEDRO: Gaze Controlled Service Robot** - Developed a service robot that uses gaze-tracking technology to be controlled by individuals who require physical assistance.

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

Skills

Programming & Software: Python, C++, MATLAB

Simulation & Modeling: Mechanical design and 3D modeling (SolidWorks, Fusion360), Technical Drawing, Surface Design, Robot Simulation (Pybullet)

Technical Tools: Computer vision (OpenCV), Embedded systems (Arduino, microcontrollers), Rapid prototyping (3D printing, mechanical assembly)

Languages

- Turkish, Native
- English, C1
- Italian, B1