



ERHAN KALAMAN

Master's Student

Currently pursuing a Master's degree in Machine Theory and Control at Yıldız Technical University, with strong interests in control theory, stochastic control, and vehicle dynamics. Passionate about exploring advanced control strategies and their practical applications in dynamic systems, focusing on performance optimization and stability analysis.

Experience

- 03.2022-08.2022
Tulpar Hyperloop-Sisli/Istanbul
R&D Department-Mechanical Design/Structural Analysis Engineer
Designing hyperloop chassis and vehicle mechanical systems for TEKNOFEST Hyperloop Development Competition.
- 09.2022-10.2022
Ozkanlar Metal-Buyukcekmece/Istanbul
R&D Internship-Mechanical Design Engineer
Designing OEM and automotive parts for L7 e-CU class vehicle. Preparing technical drawings and documents for manufacturing processes.
- 11.2022-4.2023
YTU-Astrid Autonomous- Yıldız Technical University/Davutpasa
Vehicle Dynamics and Mechanical Design Engineer
Analyzing and designing vehicle suspension and pneumatic braking systems for the TEKNOFEST Robotaxi Competition vehicle.
- 07.2023-09.2023
DTEL Demircioglu TEL. SAN.- Arnavutkoy/Istanbul
Manufacturing/Design Internship-Manufacturing Engineer
Preparing product technical documents and drawings, reverse engineering applications for cold rolling processes and calculating daily manufacturing reports.
- 17.02.2024-01.05.2025
EPSILON Technological R&D Corp.-Maslak/Istanbul
Part-Time R&D Engineer
Dynamical analysis, vehicle control systems and battery studies for an electrical light commercial truck project, using ADAMS-Car and Matlab-Simulink.

Studies

- Gear Reducer Design and Optimisation**
Supervisor: Assoc. Prof. Serap Özhan Doğan
Constructional and dynamical design of a Gear Reducer. Bachelor's Final Project.
- Active Suspension Integrated Torque Vectoring Controller Design**
Supervisor: Assoc. Prof. Muzaffer Metin
Synthesizing a vehicle driving control system. Master's Thesis. In Progress.



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Education

Bachelor of Mechanical Engineering
Istanbul Beykent University
2019- 2023
GPA: 3,33

Master's Degree of Machine Theory and Control
Yıldız Technical University
2024-Now
GPA: 3,36

Expertise

Matlab-Simulink
Control and Systems Theory
Model Predictive Control

Language

English (B2-C1) (Upper Intermediate)