Burak Taş

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Portfolio: https://burkutken.github.io/portfolio/

Education

High School: Akasya College (2014-2018)
University: Işık University – BEng Mechatronics Engineering (2018-2025)

Summary

Mechatronics Engineering graduate with hands-on experience in mechanical design-prototyping and robotic systems. Proven ability to develop solutions using nTop, Solidworks, ANSYS and Matlab/Simulink across two internships, graduation project and Tübitak project. Contributed to TeknoFest competition project with focus on mechanical design.

Skills

- **CAD/CAE**: SolidWorks (3yrs), Fusion 360 (6yrs), ANSYS [Structural, Fluent CFD (2D), Transient] (1yr)
- **Programming**: Matlab, Python, C, Arduino (Embedded Systems)
- **Control/Simulation**: Matlab/Simulink, Proteus
- **Design:** Technical Drawings, nTop
- **Languages**: English (C1), Spanish/Indonesian (Beginner)

Experiences

- **Mechatronics Internship** | Arvege Mekatronik San. Tic. LTD ŞTİ
  - Integrated sensor-actuator system for assembly machines
  - Assembly technics
  - Conveyor System
  - Actuator as pneumatic grippers for assembly machine
- **R&D Internship** | Altınay Robot Teknolojileri
  - The working principles of Industrial Robotic Arms
  - KUKA and ABB robots and their program environments
  - Work management and group work habit

Projects

Mechanical Team Member | Teknofest IDA Competition - Team Talayhan | June 2024
- Designed full body structural of the unmanned surface vehicle (IDA) using Fusion 360 and Solidworks
- Conducted stress analysis using SolidWorks and ANSYS
- Reached to final video providing section

Research Assistant Student | Mechanical Department Laboratory | June 2025
- Developed CAD models for MQL system project using SolidWorks and Fusion 360
- Developed CFD (2D) analysis using ANSYS Fluent
- Prototyped 3D-printed PLA and SLA components for research purposes

TUBITAK (The Scientific and Technological Research Council of Turkiye) 2209a Project Manager | 2024-1 [1919B012414175] | On-going
- Developing and producing Gyroid structures using 3D SLA Printer and nTop
- Testing developed Gyroid structures for compression, collection data for produces Gyroid structures, using machine learning, selecting the best developed model.