

EDUCATION

- Middle East Technical University** Ankara, Turkey
 - Aerospace Engineering; 4th Year, CGPA: 2.49* Sept 2019 - Ongoing
 - Courses: Fluid Mechanics, Numerical Methods, Heat Transfer, Aerodynamics, Applied Elasticity, Aerospace Structures*

SKILLS SUMMARY

- Languages:** C/C++, Fortran, MATLAB, LaTeX
- Softwares:** Catia, Siemens NX, SolidWorks, Fusion 360, xflr5, MS Excel, Illustrator

EXPERIENCE

- METU Aerospace Society** Jan 2020 - March 2021
 - Head of Communication*
 - Responsible for interactions, announcements within the community and social media accounts of the community.
- Airfighters.com** Nov 2021 - Ongoing
 - Editor and Representative*
 - Followed and shared the world aviation news on a weekly basis..
 - Designed the graphics needed for the page.
 - METU representative of the page.
- Turkish Aerospace Industries (TUSAŞ)** Dec 2021 - May 2022
 - Long Term Intern*
 - Worked on the modeling of structural parts.
 - Used mostly shape design, part design and assembly workbenches of Catia.
 - Contributed to modification projects by making detailed research and reports.
 - Researched, modeled and finished a concept modification study.
- 5. Main Maintenance Factory of Turkish Armed Forces** July 2021 - Aug 2022
 - Intern*
 - All phases of the helicopter maintenance at the depot level, especially the main body, engine and composite, were observed.
 - Did the disassembly and assembly of the body parts of different types of helicopters.
 - Contributed to the installation of missile warning systems on relevant helicopters.
 - Performed a test flight with a Sikorsky S-70 Helicopter after maintenance.
- TÜBİTAK Space Technologies Research Institute (TÜBİTAK UZAY)** Aug 2021 - Sep 2022
 - Intern*
 - Studied in detail on spacecraft orbital and attitude dynamics.
 - Made orbital modeling and visualization using right ascension and declination data by using MATLAB.
 - Contributed technical observations at advanced satellite production and control facilities of TÜBİTAK UZAY.
 - Participated in presentations of future projects of the Institute.

PROJECTS

- UAV for Teknofest International Unmanned Aircraft Competition 2021 - TÜBİTAK:**
 - Member and pilot of the METU Airbenders team.
 - Designed various sizings for a UAV under 4 kg and its payload system.
 - Studied for the image processing code to detect the release area during the mission.
 - Prepared the fully autonomous control code using px4 autopilot.
- VTOL UAV for METU VTOL Competition 2020 - Boeing:**
 - Member of the METU Airbenders team.
 - Designed various sizings for a VTOL(vertical take-off and landing) UAV under 4 kg.
 - Performed aerodynamic analysis mainly using XFLR5.
 - The UAV was designed as a quadplane and to carry payload dangling at the end of a 1 meter long rope.
- UAV for Teknofest International Unmanned Aircraft Competition 2020 - TÜBİTAK:**
 - Member and pilot of the HUMA team.
 - Designed main frame, landing gear, and payload system by using Fusion360 for a quadcopter UAV under 4 kg.
 - Manufactured the frame with CNC using aluminum composite and other components with 3D Printer using PLA.
 - Performed test flights and then made optimizations.
- International Space Apps Challenge 2020 - NASA:**
 - Developed the basic space game named Fight For Future using Unity and Blender with the team.