

Yusuf Ferhat YILMAN

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in yusuf-ferhat-yilman 🌐 y-f-yilman

Education

- BS** **TOBB University of Economics & Technology**, Major in Mechanical Engineering and Double Major in Electrical and Electronics Engineering Sept 2021 – May 2026
- ME GPA: 3.2/4.0
 - EEE GPA: 2.6/4.0
 - **Coursework:** Thermodynamics, Fluid Mechanics, Computer-Aided Design and Manufacturing, Engineering Systems Modeling and Dynamics, Control Systems, Computer Programming, System Programming

Experience

- Roketsan**, Long-term Engineer Intern Ankara, Turkey
May 2023 – Aug 2023
- Developed and implemented algorithms in Python for the design and analysis of scramjet nozzles
 - Applied key principles of compressible flow dynamics and shock wave theory to enhance scramjet nozzle performance under high-speed conditions
 - Engineered an approximation algorithm to detect and analyze boundary layer separation within scramjet nozzles under varied operational conditions
 - Integrated nozzle contour data into multiple formats and platforms to be used in

Projects

- A Text Based Game in C++** github.com/y-f-yilman/BIL142Proje
- Developed a short space adventure game in C++
 - Tools Used: C++
- Digital Clock and Calendar** github.com/y-f-yilman/Digital_Clock
- Developed a digital clock and calendar in verilog and implemented with an FPGA
 - Tools Used: Verilog, Vivado, BASYS3
- Inverted Pendulum** Control Systems Design
2024
- Made a simulation based on the generic control problem in MATLAB, Simulink and Simscape
 - Tools Used: MATLAB, Simulink, Simscape, Control Theory Toolbox

Technologies

Languages: Python, C, C++, MATLAB, Verilog, Markup Languages

Technologies: Debian-Linux, Git, FPGA Development, Computer-Aided Design (CAD)