Abdullah GEDUK

State College, Pennsylvania

PROFILE

Mechanical engineer and PhD candidate with high-honors B.S. from Boğaziçi University. Current research focuses on modeling 3D nonequilibrium turbulent boundary layers. Proficient in MATLAB, C and CAD. Experience in vibration analysis, mechanical component design and STEM teaching.

EDUCATION

Thermal Design Project: Cooling of an Electric Car Motor

- A novel way to cool a 2016 Tesla Model S 70 RWD electric car motor is proposed and simulated.
- Optimization for an 8 parameters system is done using MATLAB, validation of the model is satisfied by ANSYS.

09/2021 - 01/2022

Mechatronics Project: Automatic Guitar Tuner

• Microcontroller-based guitar tuning machine is designed, programmed, and built with all the components.

• FFT algorithm is used in Arduino to determine frequency with an embedded closed-loop feedback system to run the motors.

INTERESTS

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TECHNICAL SKILLS

- MATLAB & App Designer
- C Programming
- CFD
- Computer Aided Design
- Arduino & Mechatronic Design

- - LANGUAGES
 - Weightlifting
 - Music
 - Cycling
 - Art & History
 - Traveling

NOTE: I am holding a Green Card and am authorized to work in the U.S. a lawful permanent resident.

- Turkish (Native)
- English (Fluent)
- German (Beginner)
- 10/2020 02/2021