

MERT EMREM

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EDUCATION

İzmir Institute of Technology
B.S. in Mechanical Engineering

2017 - ongoing

EXPERIENCE

Fluid Mechanics Laboratory
Voluntary Internship

November 2018 - Present

- Provided assistance to lab work taking place at the time, this covered helping setting up measuring instruments and applying motion tracking software to be used for an offshore wind turbine.

Teknopark İzmir - Teknoloji Transfer Ofisi
Voluntary Internship

February - August 2018

- My responsibility was to provide assistance for ongoing projects, specifically, printing and building a 3D scanner.

TECHNICAL STRENGTHS

Technical Drawing & Simulation
Visual Design
Machine Learning
Data Visualisation
Document Typesetting
Programming

Autodesk Fusion 360, Ansys, Solidworks, Simulink
Adobe Photoshop & Illustrator
Python with Numpy and Pandas
Tableau
L^AT_EX
MATLAB, Octave, Python, C#

LANGUAGES

English	Proficient (C2 - Certified, Kaplan International)
German	Intermediate
Turkish	Native

CERTIFICATES AND CONFERENCES

15th METU Robotics Days

March 2018

Middle Eastern Technical University

- Competed in line follower category.

TEI Academy - Aviation Engines
TUSAŞ Engine Industries Inc.

March 2021 - June 2021

- Course content: Design, operation and performance of aircraft gas-turbine and piston engines. Engine materials, processes, assembly and QA. Manufacturing and nondestructive testing of engine components.

ToRK 2021 - 6th Turkish Robotics Conference
Türkiye Robotbilim Konferansı

July 2021

PERSONAL PROJECTS

Flight Physics Model

Unity 3D

- Built an airplane simulation including aerodynamic forces, ground effect, controllable aerodynamic surfaces etc. C#, Blender and Photoshop were used also.

DIY Oscilloscope

DSO138

Traffic Sign Classifying DNN using LeNet in Keras

VOLUNTEERING ACTIVITIES

İnovaTİM

2018 - 2019

Educator

Türkiye İhracatçılar Meclisi

- Mentored high school students with a curriculum centered around artificial intelligence and machine learning. I facilitated their learning activity by demonstrating the content to cover and assisting them in the applied and theoretical processes.

IEEE İYTE

2019 - 2020

Educational Activities Commitee Chairman

- Planned and supervised initiatives centered around teaching elementary and middle schoolers. Our team worked on a 6-week project on teaching the basics of robotics using LEGO Mindstorms.

IEEE İYTE

2019

Design Coordinator, Referee - RoboLeague

- Managed the design team and personally worked on every aspect of RoboLeague 2019 regarding visual design, including banners, online promotions, schedules, logos, ID cards etc. as well as referee work for the mini-sumo competition.

ACADEMIC INTERESTS

AI, ML-DL, Image processing, Robotics and automation, Control engineering, Aviation

EXTRACURRICULARS

Paragliding, electro and acoustic guitar, latin dances