

OGUZ TECIRLIOGLU

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EDUCATION

University of Manchester | **BEng (Hons) Aerospace Engineering** | Sept 2018 – June 2021
First-Class Honours expected

- Modules: Fluid Mechanics (75%), Structures 1 (79%), Elec. Supply & Circuits (72%), Mod & Sim2 (72%).

Projects:

- Modelling & Simulation: December 2019 – April 2020

Built a 2 & 3 dimensional counterflow heat exchanger in **ANSYS** to find necessary length. Analysed stress a wing bracket on an airplane faces and redesigned it to reduce weight and meet stress requirements using ANSYS. Simulated temperature variation of 1-D wall using the finite element method and calculated complex truss bending moments, plotting displacements and forces using **MATLAB**.

- Tools for Engineers: October 2018 – December 2018

Used CAD (**SOLIDWORKS**) to design various parts, such as a coupling housing.

- Data Acquisition & Experimental Methods: December 2019 – February 2020

Used **LabVIEW** to program a XY plotter with inductive proximity sensor to measure an area and produce the resultant “image” of the whole area in a team. Gained experience in visual programming and enhanced critical reasoning skills while designing and implementing a real-world application.

- Aircraft Design January 2020 – April 2020

Proposed design for civil airliner that met market requirement of destinations that it will fly between (passengers per flight, frequency etc.) and made compromises between this requirement, the laws of physics and aviation regulations. Using aircraft stability & control equations and these limits, we came up with a final design as a team.

Bilkent Laboratories and International School (Ankara, Turkey) | Sept 2015 – May 2018

- Completed the **International Baccalaureate**:
- Higher Level: **Mathematics with Calculus (6/7), Physics (6/7) and Economics (7/7)**.
- High School Diploma (89% overall) and High Honours certificate on all years

WORK & EXPERIENCE

Japan Tobacco International (JTI) (5 weeks) | 2019

Quality Assurance Intern

- Was part of a team that ensured each product was up to the global company standards.
- Regularly collected samples from each machine, analysed them and worked on a project that analysed data on the types of production errors machines made and pinpointed the cause.
- At the end of the analysis, we found one machine with a reoccurring malfunction in the packing stage and fixed it.
- **Learned to work under pressure** and the benefit of an enthusiastic outlook in the working environment and connecting with other co-workers.

Equity Trading | 2020-Today

US Markets

- Started trading a small amount of my own money to gain experience and knowledge in how stock markets work.
- Usually hold positions for one month.
- Learnt to manage risk and what to look for in a growth or value stock, how to evaluate them etc.

TECHNICAL SKILLS

- Languages: **JavaScript** (personal website, tic-tac-toe game, tip calculator.), **HTML & CSS**, learning C++, **MATLAB**.
- Tools: GitHub, Office, Visual Studio, LABView.
- CAD & Simulation: **SOLIDWORKS**, **ANSYS**.

LANGUAGES

Turkish (Native), English (Fluent TOEFL 109/120), Spanish (DELE A2), Serbian (Beginner)

EXTRACURRICULARS

MACE UAV Society 2019 - Present

- Design and create fully electronic model planes or drones, as well as dealing with coding software used on unmanned drones.
- Experience from this activity allowed me to gain experience building and designing fully electronic aviation, teamwork, and project work division, which allowed us to build planes at greater speeds.

Model United Nations (MUN) 2014 – 2018

- Delegate in 5, Chair in 1 conference
- Improved public speaking and debating skills, as well as learning to quickly brainstorm for a solution.

Varsity Basketball Team 2015 – 2018

- Captain of the team in senior year. Able to carry responsibility for a group of people such as
 - o Making sure everyone comes to training and games on time
 - o Everyone knows game plans and what the team is going to do

INTERESTS

- Physics (Cosmology & Quantum Physics)
- Reddit
- Reading (History & Fiction)
- Music: Piano for 6 years between age 6 and 12.
- Rowing: 3 years in Red Star Club in Serbia.
- Windsurfing: Since age 11, whenever I can find time in the summer.
- Powerlifting: Since age 13 until today, at least 3 times a week.
- Model Remote-Controlled Aircrafts and R/C Trucks: I have a wide collection of electronic planes, nitro fuelled planes and a nitro fuelled model truck. Experience with assembling them and fitting modifications (such as ‘spoilerons’ or ‘flaperons’) to improve them.