TOM ELLIOTT BLAKE

Aeronautical Engineer Student

@ tomblake1998@outlook.com 07712562884 Loughborough, UK tomblake98.wordpress.com
in linkedin.com/in/tomelliottblake

EXPERIENCE

Personal Mathematics Tutor

Private

Jan 2018 – Present Loughborough,UK

- Teaching A Level students mathematics.
- Students have experienced noteworthy improvements in their studies.
- Developed interpersonal skills such as communication, improving my ability to explain a topic effectively.

Retail Assistant

Waitrose JLP

Jan 2016 – Present Dibden,UK

- Provide excellent customer service.
- Dynamic work environment where I would change roles frequently.
- Ongoing professional training opportunities, increasing my scope of responsibility in the branch.

Intern CAD Designer

SR UAV

July 2018 – August 2018 London,UK

- Individual project to produce a drone concept for military surveillance.
- Use of Autodesk generative design techniques for strength optimisation.
- Designed to fit a specification brief.

SKILLS

MATLAB, Simulink, Python, LaTeX
NX11, Inventor, Fusion 360, CFD, FEA

EDUCATION / COURSES

Principles of Machine Learning: Python Edition

edx - online education

March 2019 – On Going

Aeronautical Engineering BEng

Loughborough University

October 2017 – On Going

Peter Symonds College

Sept 2015 – June 2017

A*	Physics	(A Level)
A	Mathematics	(A Level)
A	Chemistry	(A Level)
B	Economics	(AS Level)
A*	Extended Project	(EPQ)

HONOURS & AWARDS

Received 1 of 6 IMechE Undergraduate Scholarships.

Current grade First Class Honours

STRENGTHS

Numerical Reasoning | Critical Thinking | Leadership | Innovation | Data Analysis | Perseverance | Communication

PROJECTS

Autonomous Drone Platform

- Designed for the university final year projects.
- Controlled via telemetry to a GCS.
- Customisable with the option for mobile data connectivity.

Line Tracking Drone Integration

- Python based image layer processing.
- Control system to output flight controller inputs.

BMFA Payload Challenge

- Leadership role in a highly competitive group.
- International competition, placing 4th.
- Winning best CAD, technical drawings & report.
- Produced a successful RC aircraft.
- Competing next year with Gen 2 aircraft.

Structural Beam Optimisation FEA

- Minimum weight target for structural stability.
- Parametric design iteration test technique.
- Nonlinear static stress FEA.

Car Usage Tracking Smart Utility

- OB2 port data collection & analysis.
- Logs with GPS and time data on RPi3.
- Analysing emissions, mpgs and engine health.

INTERESTS

- Competing in rowing races for University & NRC.
- Experimenting with CAD software and coding.
- Taking aerial drone photography & cinematography.
- Building model remote control aircraft.
- Developing my DIY 3D printer.
- Keeping up-to-date with Formula 1.

REFERRES

Mr John Newton
@ J.H.Newton@lboro.ac.uk
SM130, Stewart Miller Building
Loughborough University

Dr. Paul Cunningham
@ P.Cunningham@lboro.ac.uk
SM220, Stewart Miller Building
Loughborough University