LEON **TROWSDALE**

KT4 8SW Worcester Park UK · 07410937289

leon.trowsdale.uk@gmail.com · https://www.linkedin.com/in/leon-trowsdale/

EDUCATION

JUNE 2025 - PRESENT

BACHELOR'S DEGREE, UNIVERSITY OF BIRMINGHAM

Mechatronic and Robotic Engineering BEng

- 1st Year: **2:1**

JUNE 2024

A-LEVEL'S, BLENHEIM SIXTH FORM

- Physics (**A**), Product Design(**A**), Maths (**B**), Further Maths (**B**)

JUNE 2022

GCSES, BLENHEIM HIGH SCHOOL

- 8x GCSEs at grades **A*- B**

EXPERIENCE

FEBRUARY 2025 – CURRENT

JUNIOR EDUCATIONAL MANAGER, MYEDSPACE

Work part-time with the physics department across website content development, building and maintaining GCSE and A-level subject pages using KaTeX equations, images, and structured educational content.

The role also includes moderating large-scale live online physics lessons of 150+ students, supporting in real time, answering questions, and maintaining a positive and focused learning environment.

JULY 2023 – CURRENT

TECHNICAL CONSULTANT, GILLERON SCOTT ACOUSTIC DESIGN

Freelance with an acoustic design consultancy, modelling spaces, performing acoustic simulations and calculating reverberation time to determine the correct treatment for a space.

Also implemented marketing initiatives, including automated outreach campaigns, CRM implementation, and client newsletters.

JULY 2023

WORK EXPERIENCE, CABINET OFFICE

Spent a week at the cyber directorate in the cabinet office learning about the latest technologies employed by the government to mitigate security breaches.

SKILLS

- Strong IT and Troubleshooting Skills
- Python, C, Arduino
- Fusion360, Blender, SketchUp, Unity, VR
- 3D printing, Cura
- Guitar, Piano, and Ukulele
- Acoustic software: CATT, INSUL
- CRM/Marketing software: HubSpot, Apollo.io
- Other software: Ableton, Reaper, Premiere Pro

PROJECTS

- Automated dartboard tracking system using the open-source software Autodarts, achieving 97.5% accuracy.
- 3-axis face tracking system using OpenCV, Python and Arduino.
- Fully 3D printed hovercraft, built with unused drone electronics.
- Screen reactive backlight using a WS2812B led strip and Arduino.
- Assembled and repaired FPV drones, with experience in acro piloting.
- Experience with Lego Mindstorms NXT and EV3 kits from a young age, projects include a bionic hand and improvements to a Rubik's cube solver.
- Recorded VR mixed reality content using OBS, GoPro and chroma keying.
- Documented and edited travels with Premiere Pro using footage from DJI and GoPro.
- Built a plywood skateboard from single ply sheets using only hand tools.
- Recorded and mixed songs in Ableton and Reaper for personal socials.

ACTIVITIES

- £1,000 scholarship for academic excellence in product design.
- Accomplished the Jack Petchey Award for demonstrating leadership skills in Scouts.
- Took part in the Programming Robotic Arms Python course in 2019 by Think Create Learn.
- Attending engineering and technology conferences to stay in touch with the latest advancements in the field.
- Provided support at college as head of 3D printing, assisting and educating students on the machines.
- Captained a VR E-Sports team consisting of international players, organising matches across time zones.
- Joined CoderDojo, a free workshop ran by volunteers to teach programming.