

Current Roles and Work History

Developer and Technical Consultant - Freelance _____ **2018 - Present**

Backend development work for start-ups and charities including EV Energy (smart charging API for electric vehicles), Jangala (Wi-Fi systems for refugee camps).

Sculpture and freelance development for independent artists including LED visualisation of climate data and guided experiences for events.

Junior Developer and Support Engineer - Tyk Technologies _____ **2017 – 2018**

Developing and maintaining an Open Source API gateway and management platform. Development in Go (Golang) and using Docker.

Online Tuition – Lanterna Education & Independent _____ **2012 - 2020**

Online Engineering Mechanics and Programming tutoring. IB level Maths, Physics and Chemistry in classes of up to 17 in Oslo and London.

Education

Harvard University - Online Education _____ **2021**

CS50 Introduction to A.I. with Python

Imperial College London _____ **2012 – 2016**

MEng in Mechanical Engineering, First Class Honours.

Final Year Abroad - Delft Institute of Technology Design School, The Netherlands

Thesis project - Applying computer vision to a 3D printing environment allowing automated placement of electronic components. Use of OpenCV package within a Python environment.

Completed elective courses in Computer Vision, Control System Design, System Modelling/ Identification and Optimisation.

King's College School _____ **2007 - 2012**

International Baccalaureate Diploma, scored 44/45 (top 0.74% globally). 1st XV Rugby.

Skills and Interests

IT and Manufacture:

Python for modelling and data processing, C for microprocessors/Arduino and LED animation, competent in CAD modelling, laser cutting and 3D printing

Languages:

English (CEFR: C2), Afrikaans (C1), Spanish (B1), French (B1), German (A2), Dutch (A2)

Qualifications:

UK Driving License - NPPL Microlight Pilot License - UK Skydiving A-license and FS1 formation rating - Paragliding License (in progress) - PADI Open Water Scuba Diving License - First Dan in Seiki-Juku Karate-Do