Joe Osborne
Curriculum Vitae

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WORK EXPERIENCE

SEP 2020 - CURRENT

Verdantix
Technology Analyst

- Conducting briefings from technology vendors to understand their offering and business strategy
- Undertaking research interviews with senior corporate customers to understand the current market demands
- Managing large survey projects
- Consulting projects including M&A target scans and commercial due diligence, requirement gathering and thought leadership
- Building quantitative models to size and forecast technology markets
- Extracting high-value insights through data analysis of survey responses
- Formulating these findings into succinct research reports and webinar presentations

OCT 2018 - AUG 2020

Royal Air Force Volunteer Reserve
Officer Cadet

Selected to join the University Air Squadron for officer training:

- Military leadership and management courses
- Section IC leading a team of 9 through an 8 hour blank firing exercise
- Force development 2IC planning and arranging training courses
- Flying, skiing and adventurous training course

AUG 2018 - DEC 2018

Tutor Doctor Harrow
A-Level Physics and Mathematics Tutor

- Coached students through the syllabus
- Aided in university application process
- Championed online tutoring software and wrote the best practices

JUL 2015

Martin Baker Aircraft Company
Intern Mechanical Design Engineer (CAD)

- Independently arranged this opportunity to gain industry experience
- Digitized paper drawings of the MK10 ejector seat into CAD

MASTERS RESEARCH

"Wind Turbine Blade Tracking Using a LiDAR Equipped Drone"

- Part of the University of Bristol's research into a drone-based delivery system for offshore wind turbine inspection and maintenance robots
- Integrated a LiDAR sensor onto a drone to collect real world data
- Developed and tested two filtering and two matching algorithms accuracy and efficiency, using experimental data
- The paper outlined the next steps to integrate the detection algorithm for an *in-the-loop* autonomous landing test
- This research has led me to be included as an author on further papers from the university

EDUCATION

2016 – 2020 **Master of Engineering**
FIRST CLASS HONOURS
Aerospace Engineering
University of Bristol

2010 – 2016 **A-Levels**
A*AA
Maths, Physics and Computing
Nower Hill High School

SOFTWARE & ENGINEERING

ADVANCED	MATLAB Microsoft Windows and Office
INTERMEDIATE	Python, C, C++, LaTeX Simulink, CAD (various)
PROFICIENT	Java, C#, Linux, HTML5, SQL

SKILLS

Strong Presentation Delivery

I can convey messages through confident verbal delivery and a succinct slide deck. Proven by my composure in front of C-suite critique

Intellectually Swift

Much of my development has arisen from self-teaching and a desire for continuous improvement

Effective Scheduling

I am able to prioritise tasks both mentally and using tools, such as Gantt charts, to improve efficiency for myself and team members

PERSONAL PROJECTS

Algorithm Trader

Using the fxcmpy library, I wrote a python script to back test trading strategies and stream live price information. I used pandas DataFrames to store the information and used scipy's find_peaks to manipulate the data

PUBLICATIONS

Moradi, P. , Richardson, T., Osborne, J. *et al* (2021). Precision Control and Navigation of Drones Operating in Vicinity of Wind Turbine Blades Using On-board Sensors.

Publication Ongoing