

Joe Osborne

Curriculum Vitae



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WORK EXPERIENCE

Verdantix SEP 2020 - CURRENT
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

Royal Air Force Volunteer Reserve OCT 2018 - AUG 2020
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

Tutor Doctor Harrow AUG 2018 - DEC 2018
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

Martin Baker Aircraft Company JUL 2015
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

2021 **Python for Finance**
Mastering Data-Driven Finance
Hilpisch, Yves

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 MS Windows and Office
INTERMEDIATE	Python, C, C++, L ^A T _E X 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 classify turning points and thus buy, sell and hold signals. I intend to test additional strategies including machine learning techniques, deploy the solution on the cloud, build out a derivatives analytics library for option pricing and portfolio optimization