

Jay Massey

jaymassey98@gmail.com – Brighton, UK – Remote Roles Only – [linkedin.com/in/jay-massey](https://www.linkedin.com/in/jay-massey)

Software engineer with computer science, customer sales, & electronics experience, alongside a keen interest in making older designs much more automated, generalised, & efficient. 2.5+ years of industry experience utilising **C, C++, & Python**, as well as an additional 5+ years of related studies on jaymassey98.github.io/portfolio.

Experience

BAE Systems

Software Engineer

Remote

12/2022 – Present

- Programmed secure, real-time Commander radars in C++ & Ada, rendering data onto map UIs.
- Defined requirements for sprints via Agile & Scrum principles, to develop clean & concise code.
- Configured IoT virtualised systems comprehensively, to ensure end-users only used our products.
- Led software trails in Egypt at multiple project milestones, to aid in further contract negotiations.
- Continued developing the skills outlined below, including added knowledge in multiple languages.

Thales UK

Embedded Engineer

Hybrid

09/2021 – 12/2022

- Enhanced defence systems, MSN 8200 radios, & R&D behaviour / implementation ECM models.
- Redesigned digital signal processor assembly code into C & C++, resolving any obsolescence issues.
- Optimised processing algorithms running complex calculations, for systems with tight CPU timings.
- Restructured code to enable repurposing, reducing dev. costs for subsequent radio & ECM projects.
- Overhauled testing with mocking & unit tests, to assess all code in Visual Studio 2020 automatically.
- Constructed model-based designs of DSPs, using DFT & FFT algorithms in MATLAB & Simulink.
- Automated code generation via models, & auto-updated code by data scrapping via Python scripts.
- Utilised SoCs versioned with Git & running FreeRTOS, on physical 32-bit ARM's & with VMware.

Peacocks

Duty Manager

Sussex

11/2016 – 04/2019

- Managed retail stores of 4 to 8 people 2+ days a week; promoted after showcasing strong leadership.
- Conducted employee training for new recruits, providing them with continuous advice & mentorship.
- Developed effective communication skills from constant interactions amongst a variety of customers.

University

University of Brighton

2.1 Honours Degree

BSc Computer Science

- Produced embedded C & object-oriented C++ projects on MCUs, SoCs, processors, & multithreaded servers.
- Trained a variety of machine learning models using NumPy, scikit-learn, & TensorFlow via TDD with Python.
- Studied set theory, data structures, OSs, algorithms, calculus, CI / CD pipelines, UML, circuitry, & schematics.

Personal

Qualifications – Achieved a B in Electronics A Level, & 13 GCSEs, with A's in Computer Science & English.

Further Skills – Driving; entertaining; first aid training; googling; presenting; Microsoft Office, especially Excel.

Key Interests – Boulderling; designing; gaming; ice skating; strength training; system overclocking; volunteering.