Jay Massey

jaymassey98@gmail.com – linkedin.com/in/jay-massey – Worthing, West Sussex

Software engineer with a keen interest in taking complex designs and making them more generalised, automated, and efficient. 9+ months of industry experience, with 8+ years' of experience writing code in general, as both an individual and within teams. A variety of projects are available at **https://jaymassey98.github.io/portfolio**.

Work Experience

Thales   *Crawley, West Sussex*
Embedded Software Engineer   **09/2021 – Present**

- Worked on ISO 9001 certified communication devices, such as MSN 8200 3G ALE HF radios.
- Utilised MISRA C notions & C++ STL, for 32-bit ARMs with FreeRTOS on Linux & Windows.
- Optimised legacy code by restructuring 40+ hardcoded modules into 1 generic, reusable system.
- Enabled easier to maintain code by applying consistent range checks against configuration files.
- Structured this way allowed easy repurposing, enabling cost reductions for future audio projects.
- Interpreted, designed, and deployed code through streamlined software development processes.
- Assisted in evaluating model-based designs of digital signal processing in MATLAB & Simulink.
- Overhauled testing with scripts to assess all of the billions of radio combinations automatically.
- Integrated Git software version control into build tools such as Xilinx Vitis and Visual Studio.

Peacocks   *Hove, East Sussex*
Duty Manager   **11/2016 – 04/2019**

- Led a fast-fashion sales retail team for 2+ days a week, during my superiors' days off for a year.
- Promoted from key holder after demonstrating excellent store knowledge and leadership skills.
- Managed employee training for new recruits, offering them continuous advice and mentorship.
- Supervised teams of 4 - 8 people to deliver consistent KPI's and high standard customer service.
- Selected to merchandise other stores, such as Brighton and London, after achieving high targets.

Education

University of Brighton   *Brighton, East Sussex*
BSc (Hons) Computer Science – 2:1   **09/2017 – 09/2020**

- **Agile & Scrum** – Managed projects effectively through a variety of agile model methodologies.
- **Connections** – Transferred IoT data over Bluetooth, USB, and Wi-Fi, via UART and TCP/IP.
- **Circuit Design** – Designed digital and analogue circuits using 74xx components and 555 timers.
- **PCB Design** – Produced detailed PCB layouts from designed circuitry and self-made schematics.
- **RF Concepts** – Explored various Rx / Tx concepts, such as noise, carrier waves and modulation.

Also exposed to assembly, calculus, DevOps, Jenkins (for CD/CI), Jira, Kanban, Python, SQL, and VMware.

Previous Education   **09/2011 – 09/2017**

Electronics AS (B), Mathematics AS (B), Physics AS (C) – 13 GCSEs, 6 A's, 5 B's, 2 C's, incl. 2 A's in English.

Personal

Additional Skills – Driving; entertaining; first aid trained; live presenting; Microsoft Office, especially Excel.
General Interests – Bouldering; designing; gaming; ice skating; philosophy; strength training; overclocking.