

## EXPERIENCE

### Placement Software Engineer, Leonardo UK - Electronics, Aerospace

Sept 2024 - PRESENT

Working in the aerospace industry, I gained incredible insight into the R&D of some of the world's most advanced technology. Some of the things I did are:

- Built C# tooling to prevent **£10,000s** in per unit damages for the provisioning of custom radio frequency systems through highly effective automated testing.
- Designed and developed the foundation of a unique signal processing and generation capability with a team of other placement engineers.
- Represented Leonardo, visiting schools with the [Engineering Development Trust Charity](#), mentoring students on their Gold Cadets engineering project, building a drone hangar.

### Charity Event Organising and Running, Online

Mar 2021

Amidst the Covid-19 pandemic, me and 3 other friends organised a video game based charity event of 40 or so participants to raise funds for Covid wards with the [Imperial Health Charity](#).

- We **raised over £700**, more than double our original goal of £300.

## PROJECTS

### Memory Allocator, Personal

Jun 2024

C, Unix, Systems Programming

Created my own implementation of the C standard libraries heap allocation capabilities.

- Provides the user with pointers to chunked units of allocated memory.
- Scalable memory utilisation through smart chunk resizing.

### Ranger Radar, University

Apr - May 2024

Javascript, Node.js, Postgres, Docker, Web APIs

Built and deployed a website where users can report Unexploded Ordnance (UXO), and specific forms of illegal activity via a map or SMS messages.

- Collaborated as a team of 5 to plan and develop the system
- Implemented a secure, token-based, authentication system
- Hosted the containerised services with Docker

## SKILLS

**C#, Java, JS, Python, C/C++, Rust, Go, Bash** | Object Oriented & Procedural Programming

**Git, Docker, Databases/SQL** | Dev Ops & Infrastructure Tools

**VIM/TMUX, Linux, FPGAs, Raspberry Pis** | Operating / Embedded Systems

### Initiative & Communication

- At Leonardo, I took the initiative to manage my team of other placement students, utilising agile methodologies to ensure project success.

### Technical & Statistical Analysis

- Using this skill, I volunteered for a side project at Leonardo where I analysed job applicant data to better plot our demographics, increasing awareness about diversity.

## EDUCATION

### BSc (Hons) Computer Science - University of East Anglia, 2022 - PRESENT

- Demonstrated competency with ~70% across 1st year and ~80% across 2nd year.