

Sam Gilbert (BSc & MSc)

Software Engineer

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09. 2017 Present **Northrop Grumman, Park Air Systems** Cambridshire, United Kingdom / Remote

Software Engineer

I joined Park Air Systems as a Graduate Engineer in late 2017. In early 2019, I was promoted to Software Engineer. My initial role within the company was to develop new features for and maintain an existing civil and military RCMS system, which is currently in use in over 60 countries, primarily programmed in C# and distributed on Windows Server OS and Windows mobile for tablets. Since 2019, I have been involved in the architecture, design and implementation of a brand-new ATC civil and military RCMS system, moving from a monolithic architecture to microservices. The various stages of this work have given me experience with .NET Core, .NET 6.0, Docker, gRPC and RESTful API's. This project is developed for Windows Server and Linux distros such as Ubuntu. The main focus of this project has been scalability and implementation of the latest security standards. While still working on other aforementioned projects, in February 2022, I moved teams to aid the development of new software features for the S4-IP Controller. This product operates within air traffic control towers, runs on embedded Windows 10 IoT and is a self-contained mission-critical product used to interface directly to radio equipment in active operation at airports. Throughout my time at Park Air Systems, I have also worked on other smaller products, such as the Software Update Application (SUA), which allows new versions of software to be pushed out to Park Air hardware on a customer's network. I have also been privileged to lead mentoring and other activities with ARU Peterborough since 2022.

09. 2016 09. 2017 **University Centre Peterborough** Cambridgeshire, United Kingdom

University Lecturer

One was privileged enough to spend a year as a University lecturer delivering topics such as math for computing and introduction to programming. During this time, I also undertook study to achieve a MSc in Software Engineering from Hertfordshire University. One of the greatest aspects of this employment was taking part in outreach programmes delivering mentoring to secondary school students who wanted to pursue a career in software. However, after one year of lecturing, I decided that I needed to continue to develop my software skillset and the best place to do this was in industry.



University of Hertfordshire
Online Study
Degree: MSc Software Engineering

Anglia Ruskin University
UCP Campus
Degree: 1st Class BSc(Hons) Computer and Information Systems.



- C# (.NET 6.0) ★ ★ ★ ★ ●
- gRPC ★ ★ ★ ★ ●
- Docker ★ ★ ★ ★ ●
- Git ★ ★ ★ ★ ●
- JavaScript ★ ★ ★ ★ ●
- SQL ★ ★ ★ ● ●
- Microservices ★ ★ ★ ● ●
- MVC & MVVM ★ ★ ★ ● ●

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