

# Stuart Macintosh

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Portfolio: [SmTaUcM.github.io](https://github.io/SmTaUcM)

## Profile

A highly conscientious and professional avionics and electrical aircraft technician with extensive experience of aircraft maintenance, repair, and overhaul acquired over thirteen years of service in the Royal Air Force. Specialising now in the field of aviation diagnostic software engineering and development.

A dedicated engineer with comprehensive experience of aircraft support operations, comprising intricate working knowledge of avionic and electrical systems, familiarisation with associated mechanical systems, and expertise in data management and software programming.

Combining meticulous attention to detail, established high standards, and an exemplary work ethics with a willingness to assume responsibility. Able to analyse complex issues, making timely, accurate, and pragmatic decisions. Rendered with regard to all regulatory policies and procedures, timescales, and within personal scope of authority.

Can work on my own initiative or as part of a team.

A flexible and responsive leader combining managerial, planning, and organisational talents with interpersonal and people skills, enabling the consistent achievement of objectives.

A confident, respectful and forthright communicator at all levels.

## Key Skills

- Natural Multi-tasker with proven leadership abilities who thrives when put under pressure.
- Software development utilising Python, C# and VBA programming languages.
- Software source control expertise with in-depth knowledge of Git software source control.
- An excellent working knowledge of a diverse range of avionic, electrical, mechanical and hydraulic systems gained from extensive hands on experience and theory study.
- Engineering management including inspection, repair, maintenance, modification and capability sustainment.
- Engineering trials management including on and off aircraft software testing.
- Team motivator and mentor, highly proficient in staff personal and professional development.
- Excellent communication skills.

## Career History

### **Software Development Lead / Data Bus System Engineer - (SNCO - Management Role) - Typhoon FGR4**

**Royal Air Force** – Coningsby, Lincolnshire

August 2019 to Present

Manager of a specialist team that liaise with Typhoon squadron personnel and industry to deliver aircraft test and maintenance software applications that are intuitive, easy to use and save time.

Fluent in Python and familiar with C++, Ada, HTML, XML, Java Script, C# and VBA programming languages. Responsible for prioritisation, delegation, oversight and delivery of team taskings within strict deadlines and well as managing software development lifecycle and release plans.

Test and evaluation manager, able to give design assurance that all user and system requirements have been met while maintaining responsibility for the approval of robust test plans that include both reliability and failure testing.

Provide data bus and software programming training at all levels of the team.

## **Diagnostic Software Developer / Data Bus System Engineer - (JNCO - Supervisor Role) - Eurofighter Typhoon FGR4**

**Royal Air Force** – Coningsby, Lincolnshire

August 2015 to August 2019

A member of a specialist team that liaise with Typhoon squadron personnel and industry to deliver aircraft test and maintenance software applications that are intuitive, easy to use and save time.

Fluent in Python, C#, VBA and familiar with Ada83, HTML, XML, Java Script programming languages.

Responsible for developing aircraft maintenance software applications and overseeing and maintaining software source and configuration control.

Test and evaluation coordinator, able to create robust test plans that include both reliability and failure testing backed up with concise trial reporting.

Provide a training roll at all levels for aircraft data bus maintenance assets.

## **Aircraft Avionics & Electrical Technician - First Line (JNCO - Supervisory Role) - Eurofighter Typhoon FGR4**

**Royal Air Force** – Lossiemouth, Moray

April 2014 to August 2015

An experienced supervisor able to deputise in the absence of senior management.

Prioritising, coordinating, and controlling squadron avionics and electrical engineering tasks, manpower, assets, and logistical supplies. Ensuring those under my supervision are suitably authorized and conversant with the correct engineering practices and safety precautions.

Identifying any practice, procedure or system that is a threat to safety or quality and implementing a solution.

Exercising my delegated health and safety responsibilities for all personnel employed in areas under my control.

## **Aircraft Avionics & Electrical Technician - Second Line (JNCO - Supervisory Role) - Avionics and RADAR bay**

**Royal Air Force** – Marham, Norfolk

April 2011 to April 2014

Responsible for the supervision of all avionics and electrical trade work carried out off aircraft, in a second line environment. Meeting the required targets and spares availability of our business partners by prioritising, coordinating, and controlling bay engineering tasks. Ensuring work is complete and of the required quality and standards. The assurance that all procedures and guidelines are adhered to at all times and to maintain responsibility for the further training and enhancement of skills of subordinate tradesmen. Health and safety is a key aspect to the job where all risk assessment and COSHH measures are strictly followed.

## **Education**

**NVQ Level 3 in Aeronautical Engineering (Avionics Maintenance & Avionic Component Overhaul)**

**No. 1 School of Technical Training - DCAE Cosford** – Cosford, Shropshire

2008 to 2009

**A-Levels in Maths & Physics**

**Driffield Sixth Form School** – Driffield, East Yorkshire

1999 to 2001

**GCSEs in English (C), Expressive Arts (A), Design & Technology (B), German Language (C), History (C), Maths (B), Science (BB)**

**Driffield Secondary School** – Driffield, East Yorkshire

1997 to 1999

## **Leisure Interests**

Running, Cycling, Hiking, Physics, Computing, Astronomy, Music