

David Richardson

d.richardson.tech@gmail.com | +44 161 499 1234

PROFESSIONAL SUMMARY

Senior Air Traffic Safety Technician with over 12 years of experience maintaining CNS/ATM systems in high-traffic international airports. Expertise in Raytheon surveillance radars and Thales navigation aids, with a proven history of maintaining 99.98 per cent system uptime. Committed to ICAO Annex 10 standards and experienced in leading rapid-response technical teams during critical system failures.

WORK EXPERIENCE

Lead Air Traffic Safety Electronics Specialist | NATS (National Air Traffic Services) | Manchester Airport, UK

May 2018 - Present

- Spearheaded the maintenance of 24/7 surveillance radar systems, achieving a 99.99% operational availability rate over a 3-year period.
- Managed a technical team of 12 during the installation of a £4.5 million NextGen ADS-B ground station network.
- Standardised preventative maintenance schedules that reduced unexpected hardware failures by 22% annually.
- Directed all technical documentation and compliance reporting for four consecutive CAA audits with zero discrepancies.
- Optimised signal processing for the airport's Secondary Surveillance Radar (SSR), reducing false target detection by 18%.

Systems Maintenance Technician | Heathrow Airport Holdings | London, UK

Aug 2013 - Apr 2018

- Performed complex troubleshooting on Runway Visual Range (RVR) systems and Automated Weather Observing Systems (AWOS).
- Cut system downtime by 30% by developing a proprietary diagnostic script for automated data link monitoring.
- Supervised the successful calibration of Cat III Instrument Landing Systems (ILS) during high-pressure winter operations.
- Collaborated with software engineers to patch vulnerabilities in the Voice Communication Control System (VCCS), enhancing network security.
- Trained 15 junior technicians on RF safety protocols and fibre optic maintenance procedures.

Radar Field Service Engineer | Thales Group | Crawley, UK

Jun 2009 - Jul 2013

- Conducted on-site installation and testing of Digital Airport Surveillance Radars at three international airports.
- Resolved critical hardware faults in remote radar sites within an average of 4 hours, exceeding the 6-hour SLA.
- Authored a 50-page technical manual for the maintenance of legacy microwave link equipment still in use at regional sites.
- Provided 24/7 technical support for radar signal processors, maintaining a client satisfaction rating of 98%.

EDUCATION

University of Southampton | Master of Science | Electronic Engineering

Sept 2007 - May 2009

Manchester Metropolitan University | Bachelor of Engineering | Electrical and Electronic Engineering

Aug 2003 - May 2007

SKILLS

Primary & Secondary Radar (PSR/SSR), Instrument Landing Systems (ILS), VHF Omnidirectional Range (VOR), Global Navigation Satellite Systems (GNSS), Distance Measuring Equipment (DME), Spectrum Analysers, Oscilloscopes, Fibre Optic Splicing, Network Protocol Analysis, RF Calibration, ICAO Annex 10 Standards, UK CAA Regulation Compliance, ATSEP Certification, Safety Management Systems (SMS), Risk Assessment

CERTIFICATIONS

ATSEP License | UK Civil Aviation Authority (Mar 2014)
Comms/Navigation/Surveillance Rating | NATS Training Academy (Nov 2010)

LANGUAGES

English (Native)
German (Professional Working Proficiency)

ACTIVITIES

Member of GATSEA

Attending annual conferences to stay current on global air traffic safety electronics trends.

Volunteer STEM Mentor

Teaching basic electronics and RF principles to local college students interested in aviation careers.