

Andrew D.R. Fisher

Committee Member of the RAeS - Coventry Branch | Student Member of the IET

www.linkedin.com/in/andyfisher142 | www.andrewfisher.coventry.domains

fishera6@uni.coventry.ac.uk

PERSONAL PROFILE

An enthusiastic, self-starting, aerospace engineering student with a keen eye for detail, and an interest in qualification testing & evaluation, quality, continuous improvement, and advanced technology. Strong team working and communication skills from ongoing RAF Air Cadet involvement, as well as various group projects at university. A dynamic worker able to fluidly transition from working alongside colleagues to individual tasking when and where appropriate, with a solution orientated approach.

Sound understanding of fundamental engineering and aviation principles, including but not limited to: CAD, aerodynamics, user-centred design, human factors, planning and analysis.

SKILLS PROFILE

- Microsoft Office (Excel, Word, PowerPoint etc.)
- Outlook ● CATIAV5 ● MATLAB ● STAR-CCM+
- Hand-skills ● Traditional turning & milling
- Manual CNC milling ● Wind tunnel use ● SAP
- 3D printing ● Laser cutting ● Rational DOORS
- Qualification testing (Environmental & EMC)
- Written & verbal communication ● Teamwork
- Presentation skills ● Organisation & planning
- Project management ● Customer service
- Recruitment ● LEAN White Belt
- Student private pilot ● First Aid at Work
- Full clean driver's licence

EDUCATION

2015 – Present | Coventry University | Aerospace Technology BEng (Hons) [Predicted 2:1 or above]

1st Year Modules (70%)

- Aerodynamics & Aircraft Systems
- Engineering Mathematics
- Electrical Engineering
- Mechanical Science
- Aircraft Structures & Propulsion Systems
- Introduction to CAD
- Pilot Licence Theory – AGK

2nd Year Modules (73%)

- Human Factors in Aerospace
- Aircraft Aerodynamics
- Aircraft Systems
- Aerospace Structural Analysis
- Aerospace Engineering Management
- Avionics & Instrumentation
- Pilot Licence Theory – HPL

Final Year Modules (TBC)

- Real-time Control and Applications
- Aerospace Project Management – Concept & Prototyping
- Aerospace Project Management – Test, Operation & Realisation
- Aerospace Technology
- Pilot Licence Theory – Meteorology

2008 – 2015 | The Warriner School | A Levels & Secondary Education

3 A Levels, 1 AS Level, 10 GCSE's & 2 OCR National Qualifications

PROJECTS & ENGINEERING EXPERIENCE

Nov' 2018 Factory Acceptance Testing for General Dynamics Land Systems

The engineer responsible for authoring the Qualification Test Procedure, conducting the testing and reporting on the results for a product to be retested due to a relocation of manufacturing facility. Extensive use of electrodynamic shakers and thermal chambers for testing to MIL-STD-810G w/Change 1.

Coordination of engineering and manufacturing resources to ensure all stakeholders were suitably engaged in the tasking.

Semester 1, 2017 Boeing 737-300 Wing Performance Improvement Group Project

Project leader for a 6-member team focused on improving the performance of the B737-300. The wings were redesigned in CATIAV5 and scale printed for wind tunnel testing and analysis. Simulation testing of the design was undertaken with data extrapolated and presented by means of MATLAB and Office packages. Concept proof was presented to the course leader with use of an exhibition style poster and Q&A session.

Jun' 2014 29(R) Squadron Royal Air Force, RAF Coningsby

Work experience as an Aircraft Maintenance Mechanic – Airframes and Engines. Assisted with the removal of a life expired nose gear strut, and a hydraulic system check. Additionally, provided support to avionics technicians in removal of Flight Control Computers from the avionics bay, as well as compiling and presenting a 10-minute presentation on the Typhoon and technical specs to host squadron staff.

Jul' 2012 RAF Battle of Britain Memorial Flight, RAF Coningsby

Work experience as an Aircraft Maintenance Mechanic – Airframes and Engines. Assisted in a primary service ('A' Check) of the Lancaster Bomber and Dakota, which included root cause analysis and technical literature examination to determine why metal filings were found in the oil of the Dakota. Further tasks included assisting with aircraft before and after flight services as well as 'see-offs'.

WORK HISTORY

Jul' 2018 – Sep' 2019 Abaco Systems Limited (Design Assurance Engineer Intern)

- Qualification requirements and test planning including authoring and checking of procedures.
- Qualification as well as engineering indicative environmental testing and reporting.
- Consulting with and conducting qualification testing at external test houses.
- Knowledge of: MIL-STD-461G, 704F w/Change 1, 810G w/Change 1 & RTCA-DO160G
- Lead Auditor trained for AS9100 Rev. D.

Feb' 2017 – Sep' 2019 Airplan Flight Equipment Ltd, Kidlington (Sales Administrator)

- Customer sales input, processing and despatch via front-of-house operation.
- Sole employee responsible for Saturday business operation in Kidlington.

Jan' 2016 – Aug' 2016 BMB Retail Limited, Leamington Spa (Concession Manager)

- Responsible for sales, stock management, merchandising, customer service and brand representation.
- Sole employee for the department at Leamington Spa and host store liaison.

Oct' 2013 – Dec' 2015 Debenhams PLC, Banbury (Senior Sales Adviser)

- Point of Sale key holder and supervisor trained.
- Initial point of enquiry for staff as well as junior staff role-model.
- Responsible for team task allocation and time management.

HOBBIES & INTERESTS

Oct' 2014 – Present Royal Aeronautical Society – Coventry Branch

- Young Person's Network representative for the branch since 2015.
- Invited to join the committee in 2016 on which I sit as the student liaison.
- Setup a branch Facebook page providing lecture programme information to the wider community.

Nov' 2009 – Present Royal Air Force Air Cadets

- Civilian Instructor since November 2016 (previously Staff Cadet Flight Sergeant).
- Hold MoD Security Check (SC).
- Heartstart Instructor
- Air Cadet Pilot Scheme recipient (1 of 186 UK-wide) earning Solo Wings and Solo Gliding Wings.
- Silver & Bronze Duke of Edinburgh Award.
- BTEC Level 2 in Aviation Studies

Ongoing Student Private Pilot

- Air League Flying Scholarship recipient 2016.
- 100% Pass mark in Air Law and Human Performance and Limitations exams.

Ongoing Steam Preservation Movement

- A previously active member of the Banbury Steam Society and crewed with Mr M.O. Davies of Avon Dassett on his Fowler traction engines.
- Regularly assisted in the annual maintenance and boiler inspection work.

References available on request.