

ANTHONY SMITH

- Dec 1990 Graduated RMIT Bachelor of Engineering (Aerospace)
- Jan 1991 – Dec 1993 Engineering Officer 492 Squadron RAAF. Roles included:
- Weight and balance officer for P-3C Orions
 - Supervision of operational maintenance
 - Engineer with Engineering Support Flight providing structural repair assessments and minor structural alterations for P-3C Orions
- Jan 1994 – Dec 1997 Systems and logistics engineer in GSELMU RAAF. Roles included:
- System and logistics engineer for hydraulic test rigs, air conditioning carts, aircraft arrestor system and hypobaric chambers.
- Jan 1998 – Dec 2000 Project engineer within Project Air 5276. Avionics upgrade for P-3C Orions.
- Jan 2001 – June 2004 Structures Engineer for Aerostructures Australian based at MPSPO (RAAF). Roles included:
- Mentoring junior engineers in airframe structures engineering
 - Repair design for operational damage and for crack damage
 - Design of structural modification of AP-3C Orions and repair design
 - Assessment of fatigue cracks including using AFGROW software for crack growth prediction.
 - Novel attempt to use AFGROW software to predict growth of Stress Corrosion Cracking in AP-3C Orion bomb bay lever arms.
- July 2004 – Nov 2019 Structures Engineer for Australian Aerospace (later Airbus Australia Pacific) embedded in MPSPO (RAAF). Roles included:
- Mentoring junior engineers in airframe structures engineering.
 - Repair design and structural modification of AP-3C Orions.
 - Design of temporary equipment installations for urgent operational use.
 - Assisting in the transition of AP-3C Orion from Safe Life to Safety By Inspection.
 - Identifying cause of anomalous buffet from ESM wingtips including reassessment of flight test data and managing wind tunnel investigation.
 - Mapping changes to wing washout and calculating resulting changes to structural loads on AP-3C Orion.
 - Creating an EXCEL spreadsheet to calculate flight loads for AP-3C wing box for arbitrary flight conditions using original Lockheed design data and assumptions.
 - Developing alterations to the AP-3C flight envelope to improve fatigue life of wing root connection (BL 65 Splice) by reducing wing bending moments.
 - Developing X-Ray inspection procedure for AP-3C wing root connection.
- Nov 2019 – Nov 2024 Chair Airworthiness Panel for Gliding Australia (Volunteer position)
- Ensuring organization compliance with Australian airworthiness regulations
 - Assuring technical safety aspects of Gliding Australia Emergency Response Plan,

coordinating airworthiness response and liaising with external authorities as appropriate.

- Investigation of airworthiness aspects of sailplane accidents and incidents
- Lead committee to transition Gliding Australia to Part 149 compliance.
- Updated Weight and Balance manual and training system to gain CASA approval.
- Introduction of airworthiness training for electric powered sailplanes.

Nov 2024 – Present Volunteer to Gliding Australia to manage the impact of AD 2024-05-01 on the Australian fleet of PA-25 Pawnee sailplane tow planes.

Courses:

Practical Fracture Mechanics - Broek