



Résumé – Eur Ing Kieron Parnell CEng MSc BEng MRAeS SFTE

I have a wealth of aircraft design, development, test & evaluation (T&E) and certification experience on UK, European and US military manned and unmanned aircraft. I have lead T&E and flight test projects, demonstrating compliance with the relevant design safety certification specifications.

I am a UK CAA trained, qualified, authorised & insured Remote Pilot & Accountable Manager.

Since joining Logistics Partners, I have applied the process development and compliance demonstration knowledge and skills developed in a highly regulated industry to the logistics sector by recommending improved process flows and consulted on systems testing programs. I am also designing and testing drone systems for the warehouse.

I am analytical, rational, systematic, thorough, flexible & calm by nature & education. I am motivated to complete a task on schedule, within budget & to the required quality/safety standard. I am able to communicate clearly & concisely at all levels of seniority. I am able to quickly form effective working relationships, work effectively in teams, and manage & lead single- & multi-discipline teams. I am able to quickly & accurately identify technical, operating & schedule threats and assess & manage the associated risk. I am keen to find & adopt innovative solutions that address problems at the system level.

REMOTE PILOT & ACCOUNTABLE MANAGER, AIRBORNE INSIGHTS, 2024-present

Elicitation of customer image & video requirements. Analysis of customer requirement leading to safe planning and conduct of RW drone imagery and video missions. Accurate and precise processing of imagery into inspection reports and via photogrammetry software into 2D maps and 3D models as specified by customer requirements.

Reporting of any serious incidents to relevant authorities and emergency services. Maintenance of flight authorisation, operations manual, normal and emergency checklists. Maintenance of records documenting remote pilot training, aircraft & pilot flight details, aircraft maintenance & repair, battery use & charging cycles, and aircraft, RC & battery firmware updates.

LOGISTICS ANALYST & UAS R&D ENGINEER, LOGISTICS PARTNERS, 2003-present

Warehouse & distribution information systems technology and operations evaluation & advice to support supply-chain businesses re-engineering or re-imagining technology & processes. Business and limited company operations management and administration.

Design, development, implementation and testing of drone technology into supply chain operations. Development of small OTS consumer and custom-built multi-rotors into supply chain systems in conjunction with Python applications running on OTS companion computers. Component and system static & flight testing of prototype systems in test and operational environments. Running a R&D programme starting with simple, manually piloted UAS, and ultimately progressing to ML based computer vision object detection & autonomous flight, navigation and mission control.

INTERIM HEAD OF GROUND & FLIGHT TEST, WINGCOPTER, 2021-2022

Ground and flight test process definition and implementation. Building, leading, and managing a team of pilots, and ground and flight test engineers. Planning, briefing, conduct and reporting of effective and safe ground and flight testing. Test data analysis, incident reporting, investigation and remedial action process definition and implementation. Aircraft post-manufacture, modification, and repair sign-off for ground/flight test. Engagement with the Certification, Safety, Software Engineering, Electrical/electronic engineering, Airframe and Manufacturing/Assembly teams to define test technical requirements, test articles and test scheduling. Contract role reporting to the Technical and Operations Directors, and working closely with the Engineering Manager, Programme/Project Management and Flight Operations team.

CHIEF FLIGHT TEST & CERTIFICATION ENGINEER, BLUE BEAR SYSTEMS RESEARCH, 2019

Flight test & certification process definition & implementation. Building, leading and managing a team of pilots, and flight test & certification engineers. Planning, briefing, conduct and reporting of effective & safe flight test. Engagement with and influencing/advising the regulatory authorities on industry best practice. Application of systems thinking knowledge, experience and processes/procedures to new system project proposal, design & development. Developing pragmatic approaches to certification whilst ensuring appropriate safety risk management. Reporting to the Operations Director, Managing Director & CEO.

FLIGHT TEST ENGINEER, MARSHALL ADG, 2016-2018

Planning, briefing, conduct and reporting of effective & safe flight test. Flight testing of RAF C-130J Hercules and Global Express 6000. All flight test work conducted in accordance with flight test and aircrew regulation, and to demonstrate compliance with design airworthiness & certification requirements. Reporting to the Chief Test Pilot & Chief Flight Test Engineer.

AIRCRAFT TEST & EVALUATION ENGINEER & MANAGER, QINETIQ, 2005-2016 & 2019

Military aircraft T&E to deliver independent advice (airworthiness, certification & operational safety) to the UK MOD. Flight Physics Engineer planning and conducting effective & safe Harrier & Typhoon performance, handling qualities & weapon integration flight test and providing analysis & advice. Project Engineer leading and delivering Harrier, Typhoon & Airseeker T&E projects. Technical & organisational liaison for flight test and T&E programmes between the UK RAF & Joint Service T&E squadrons and the QinetiQ T&E teams. Reporting to Project Manager, Programme Lead Project Engineer & Business Group Technical Manager.

EARLIER POST-GRADUATION ROLES

- ✦ Aircraft Performance Engineer, Aerotech Solutions, 2004-2005
- ✦ Aerodynamics Design Engineer, BAE SYSTEMS, 1997-2003
- ✦ Avionic Systems Software Design Engineer, Smiths Industries, 1994-1997
- ✦ Flight Simulator Software Design Engineer, Rediffusion Simulation, 1990-1994

Academic Qualifications & Skills

- ✦ UAS Operating Safety Case development
- ✦ Air Systems Trials Officer and Air Systems Evaluator courses, UK Empire Test Pilot School
- ✦ Test & operating safety risk assessment
- ✦ Data Analysis using Matlab and Excel
- ✦ Writing Aircraft Assessment reports, using Microsoft Word, Excel, and PowerPoint

- ✦ Software systems design, development, and implementation in Python on Linux (RPi), MacOS and Windows, using open-source libraries such as NumPy, OpenCV, etc.
- ✦ Systems Thinking, Systems Engineering (SE), Model Based SE, requirements specification and system requirements management using DOORS, Enterprise Architect and Visure
- ✦ Model aircraft remote pilot, fixed-wing (from 1997) and multi-rotor (from 2019)

Professional qualifications, memberships & certifications

- ✦ Chartered Engineer, UK Engineering Council (CEng)
- ✦ Registered European Engineer, FEANI (Eur Ing)
- ✦ Member, Royal Aeronautical Society
- ✦ Member, Society of Flight Test Engineers
- ✦ UK CAA PDRA01 Authorisation
- ✦ UK CAA General Visual (Line of Sight) Certificate
- ✦ UK CAA A2 Certificate of Competence

For more information:

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