# Profile

I am a highly skilled and adaptable engineering professional with a proven expertise in:

* Aerospace, Defence and Automotive Quality Assurance:
  + PCMO, Customer-facing, & Supply Chain;
* Standards Compliance (inc ISO 9001/AS9100, ISO/TS 16949, ISO 14001, OHSAS 18001);
* Equipment Certification;
* Equipment Trials (both Ground-Based- and Flight-Trials);
* Customer Sell-Off;
* First Article Inspection;
* Software & Hardware Integration Test, Development & Verification;
* Functional Safety;
* OHSE.

With a proven track record of performance in procedurally driven and quality focused environments within the Aerospace and Automotive sectors (the former covering both civil and military applications across a wide range of Ground, Surface, Sub-Surface, Airborne and UAV programmes), I have a strong analytical acumen, coupled with an ability to act independently, ensuring projects remain focused and within the client brief.

My experience also includes broader Process Analysis activities and the development of strategies to bring about both Process Development and Process Improvement. In my current role I have demonstrated the ability to switch to a new industry sector, assimilating the technologies and environment associated therewith, and successfully aligning the development processes for those technologies to recently published ISO standards.

# Personal Details

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Interests: I am a STEM Ambassador to secondary schools within the Kent area and serve as a Presiding Officer for local, national & European elections. I enjoy Crosswords, logic puzzles and science fiction. I manage both equipment and teams for running the Sound Desk, Lighting and Projection within my Church and have served on both the District & Parochial Church Councils. Challenged by members of my daughter’s Youth church, I recently started to learn Bass guitar – proving that it’s never too late!

# Qualifications, Training & Professional Memberships

* HND Computer Studies.
* NEBOSH General Certificate in Occupational Health and Safety.
* NEBOSH Diploma in Occupational Health and Safety, units A, B & C.
* Member of the Institution of Engineering and Technology
* Technician Member of IOSH/Associate Member of IEMA
* STEMNet & Bloodhound Ambassador.
* Microsoft Certified Systems Administrator.

# Employment History

# 2012 – Present Day: Delphi Diesel Systems, Gillingham;

* Functional Safety Manager: - Primary Role
  + Primary point of contact for all Functional Safety (FS) issues on site;
  + Member of departmental management review body;
  + Alignment of existing process set and site ways of working to incorporate requirements of the ISO 26262 standard (Automotive Functional Safety) and others;
    - Projects that nominally fall within scope of ISO 26262 (Light Duty on-highway projects);
    - Projects that DO NOT fall within scope of ISO 26262 (Medium/Heavy Duty projects);
    - Liaison with departments responsible for HW development and calibration of SW, but out-with our process set, to ensure coordinated FS approach for whole development chain.
  + Implementation of developing Functional Safety processes at the project level;
    - Management of Functional Safety life-cycle;
    - Co-ordination of Functional Safety Activities;
    - Failure Modes & Effects Analysis (FMEA);
    - Confirmation Review and Audit of defined Functional Safety Work Products;
  + Definition and review of specific Functional Safety Work Products as required by ISO 26262;
  + Cross-site coordination of FS strategy, process convergence and Work Products;
  + Participation in internal, company-wide Functional Safety Workshops;
  + Training and support of own & other sites with respect to FS and general safety culture.
  + Giving presentations on Functional Safety both within the company and at industry conferences
* Electronics Advanced Quality Engineer (AQE) – Secondary role
  + Organisational process Compliance to ISO/TS 16949 (automotive extension to ISO 9001);
  + Cross-site process review and convergence;
  + Quality process auditing (“Health Checks”);
  + Problem solving management and resolution (“5Ys” and Ford “8Ds”);
  + General process improvement activities;
  + QA support to projects including reporting to, and review with, management.

# 2005 – 2012: Thales UK, Crawley;

* Quality Assurance Engineer, working as senior member of the Watchkeeper Prime Contract Management Organisation (PCMO):
  + Setting up Flight Authorisation organisation in accordance with DEF STAN 05-100 (new function within the company), including both initial and on-going Ministry of Defence (MOD) accreditation of facilities, processes and staff;
  + Company Recognised Signatory for Flight Authorisation Certificates (FAC) and Engine Ground Run Certificates (EGRC);
  + Quality Assurance of Qualification and Flight Trials activities;
  + Equipment Inspection, Qualification and Acceptance, including Functional/Configuration Audits, First Article Inspection, etc.;
  + Equipment Sell-Off activities, including collation of information for CE Marking;
  + Coordination of recertification for MOD Design Approval Organisation Scheme (DAOS);
  + Auditing, monitoring and coordination of Quality Assurance within a complex international Supply Chain, including First Article Verification activities and both Environmental and ISO 9001/AS9100 audit of subcontractors;
  + Organisational process Compliance to ISO 9001/AS9100 (Aerospace extension to ISO 9001), including internal auditing against company processes and hosting of external assessors;
  + Auditing, monitoring and general Quality Assurance of activities performed by the PCMO, with specific responsibilities for Safety & Airworthiness;
  + Root Cause Analysis, Defect Analysis, Business/Process Improvement,
  + Coordination of Watchkeeper QA Team (4 Engineers) and reporting to higher management;
  + HS&E Risk Assessments within the workplace and member of site HS&E Committee;

# 2002 – 2005: Self Employed

* Management of a non-technical network marketing business.

# 1992 – 2002: Thales Sensors, Crawley

* Process Improvement Engineer:
  + Organisational process set Compliance to ISO 9001, including both internal auditing and hosting of external assessors;
  + Improvement of performance across a range of business critical areas using Capability Maturity Model - Integrated (CMMI);
  + Facilitation of Working Groups to redesign the company process set;
  + Member of site Health, Safety & Environment Committee.
* Principal Development Engineer:
  + Management and implementation of Software/System test strategies to meet the requirements of individual projects;
  + Experience working on radar, ESM, navigation and training systems for airborne, ground-based, surface and sub-surface platforms;
  + Development and performance of system-level Hardware/Software Integration Rig Test procedures;
  + Planning, development and performance of equipment Sell-Off activities to the customer;
  + Support of customer integration testing at customer facilities;
  + Software sub-contract management;
  + General Quality Assurance activities.

# 1991 – 1992: Smiths Industries, Basingstoke

* Software Engineer:
  + Development, validation and verification of safety critical software systems for the ultra-sonic technology based Fuel Quantity Indication System of the Boeing 777;
  + Development and implementation of software design specifications and performance criteria, including built-in safety and protection for key SW elements and data;
  + SW code and test.

# 1990 – 1991: British Aerospace, Warton

* Software Engineer:
  + Independent examination and verification of flight control software;
  + Rig testing and simulation of flight developmental systems;
  + Memory reclaim and recode at machine code level for flight developmental systems;
  + Software Hazard Analysis Team Lead (3 people) for the Cockpit Warning System of the Eurofighter, including Fault Tree Analysis and Failure Modes, Effects and Criticality Analysis (FMECA).

# 1987-1989: Standard Life Assurance, Preston

* IT Support Analyst:
  + Establishment and development of a fledgling IT system, including installation and setup of a small local PC network in a previously main-frame only environment;
  + Identification, analysis, planning, design and implementation of computer-based office systems;
  + Data analysis and reporting;
  + Staff training.