

CURRICULUM VITAE – JAMIE FORD B. Eng. (Hons), MIET, EngTech,

(SC Security Cleared held by Ultra PEMS; expires lapsed February 2025)

(For an up-to-date CV please refer to www.JTFConsultancyServices.com)

PROFILE

SECURITY CLEARED, versatile, ambitious and very successful TECHNICAL PROJECT MANAGER /LEAD ELECTRONIC DESIGN/SYSTEMS/TEST ENGINEER, and EMC CONSULTANT with a wealth of technical and commercial skills acquired over 28 years across a wide range of demanding roles within the OIL & GAS, MARINE (surface and below), AVIONICS (Commercial and military), AUTOMOTIVE, INSTRUMENTATION, RAIL, MEDICAL, CONSUMER, COMMERCIAL, TRAFFIC MANAGEMENT and CREDIT CARD PAYMENT sectors.

KEY SKILLS

- Grounded experience from production technician to project management roles; in-depth understanding of the interfacing requirement at all levels
- Multi-disciplined project management, configuration management, systems engineer, design authority, lead engineer, test engineer, requirements capture and compliance skills
- Broad range of experience includes hybridisation, V&V, design, system, test, fault finding, requirements validation, reverse engineering with analogue, digital, FPGA, CPLD, various 8-32bit MPUs/MCUs
- In-depth understanding of PIP, FRACAS, Global EMC, LVD, EMV, environmental (DO-254, MIL-STD 810 and various other avionics/oil and gas/rail/medical standards), test, design, systems, manufacturing, QA, production engineering, HAZOP, risk analysis and FMEA duties in the oil and gas, avionics, automotive, rail, medical, traffic, consumer, credit card, PC gaming, industrial and bespoke industries
- Working knowledge of Confluence, JIRA, TeamCenter, MS Project, Primavera P6 Web Tool, DOORS, Cradle, Proteus 8, Cadence, EasyPC, Altium, Protel99SE, CadStar, VHDL (including test benches), QBasic, Assembler, MatLAB, eB and embedded C
- Capable of working independently through to large international multidisciplined teams
- Design for manufacturing
- Proven track record of home office working, innovation, cost reduction, extracting information where others have failed and ability to manage concurrent contracts (as illustrated below)
- 2:1 (66%) in IEE accredited B.Eng. [Hons] in Electronic Engineering in 2000 (final year project: 1st)

CAREER HISTORY AND ACHIEVEMENTS

**Project Engineer (CONTRACT)
Ultra PEMS**

May 2021 to present

Ultra-Maritime (now PEMS) specialises in the design, manufacture and supply of novel power dense, high integrity electronics for surface and sub-surface applications including mission-critical applications.

- Generation of requirements for electronic systems including component selection, advice and review
- Design, development, analysis and schematic capture of electronic circuits using Altium
- PCB layout advice and review
- Interface to the customer on technical and project issues where applicable
- Document appropriately the work and activities undertaken in line with local operating procedures using Confluence and Jira
- Support an agile project team with test planning, documentation as well as project handover, technical enquiries; working with stakeholders to consolidate project specifications, customer requirements & performance standards to meet aggressive timescales and liaise with Production, Purchasing and Engineering functions to capture process improvements and mitigate delays to project

**Project Engineer (CONTRACT)
L3 Harris (ASV)**

Dec 2020 to Apr 2021

ASV is the Autonomous Vehicles arm of L3Harris who design, manufacture, test, and commission advanced commercial and military autonomous vehicles for clients.

- Support an agile project team with project handover, technical enquiries; working with stakeholders to consolidate project specifications, customer requirements & performance standards to meet aggressive timescales
- Liaise with Production, Purchasing and Engineering functions to capture process improvements and mitigate delays to project milestones due to specification changes, procurement delays and COVID-19 related delays
- Support Systems Engineering with requirements articulation, reviews, capture, tagging and linking at various levels; managing the design through appropriate peer review processes
- Versatile role with active responsibilities for configuration management, project management, systems engineering, design, documentation, production and commissioning
- Involved in the full engineering lifecycle; PDR, CDR, PRR, TRR etc, requirements capture, design, integration, validation, verification, certification and commissioning

**Senior Systems Engineer (CONTRACT)
BAE Systems (Submarines) Plc**

Jun 2020 to Dec 2020

BAE design, build, test, and commission the most advanced submarines ever operated by the Royal Navy, as well as their state of the art combat systems and equipment.

- Systems Engineering Duties; includes requirements articulation, review, capture, tagging and linking at various levels (DOORS) for the Submarine infrastructure; managing the design through appropriate peer review processes
- Versatile role with active responsibilities for design, documenting and implementation of various systems
- Involved in the full engineering lifecycle; requirement capture, design, integration, validation, verification and delivering the project and includes liaising with selected external suppliers and other internal teams
- Working with and influencing key project stakeholders, and actively support knowledge sharing and exploitation of best practice during the engineering life cycle

Self-employed Hermes courier during lockdown/contract search

April 2020 to June 2020

**Electronic Engineer (CONTRACT)
Eaton (Aerospace) Ltd**

**Jan 2020 to April 2020
[Contract ended early due to COVID-19]**

Eaton is a world leader and premier innovator in aerospace. Eaton designs, manufactures and integrates the industry's most advanced products and technologies

- Avionics design/verification/requirements and engineering duties for commercial and military aircraft
- Use Cadence for schematic capture and review including reviewing PCB layout
- Working in international team, supporting production and engineering teams in India at other U.K sites
- LRU test plans and procedures including verification requirements and procedures; Legacy product support
- Multi-disciplined support roles: Peer reviews, CRB (Change Review Board), Software, and FRACAS (Failure Reporting And Corrective Action System); EMC, environmental, HALT and HASS testing and consultancy
- Following PIP design review gates SRR, PDR, and CDR etc.
- Used Enovia to electronically redact, store, track, control and transmit documents (classified or otherwise)

**Technical V&V Project Manager (CONTRACT)
Expro WWS (Part of Expro Group)**

Oct 2018 to Nov 2019

Expro's mission is well flow management; providing services and products that measure, improve, control and process flow from the demanding environments of high-value oil and gas wells.

- Technical V&V Project Management (AWES, EMC, Safety, Environmental, RED, RoHs and WEEE)
- Technical PM for Hybridisation project from concept to production; design reviews and supplier liaison
- Electronic hardware design using ARM Cortex M4 MCUs for demanding 175°C low power environments
- Multi-disciplined support roles: Peer reviews, EMC (set-up pre-comp lab), change review board, Software, mechanical, production, field trial and testing
- Systems engineering duties (requirements traceability, analysis, capturing and validation)
- EMC, environmental, HALT and HASS testing and consultancy

Cobham Mission Systems is the market leader for Air-to-Air Refueling, providing nose to tail solutions to defence customers worldwide; 99% of NATO forces operate with Cobham designed systems.

- Avionics design/verification/requirements engineering duties (using FPGAs, ARINC, 1553 and optical within various programmes such as A330M, A400M, KC46 using NI TestStand, CADStar
- LRU test plans and procedures including ATE test and verification requirements and procedures, Cobham Guideline documents and supporting design reviews for probe and drogue refuelling systems; Legacy product upgrade, repair, optimisation over multiple avionics/military projects related to avionics
- Multi-disciplined support roles: Peer reviews, CRB (Change Review Board), Software, FRACAS (Failure Reporting And Corrective Action System), ATE and flight trials; Systems engineering duties (requirements traceability, analysis, capturing and validation) using Cradle v6.3
- EMC, environmental, HALT and HASS testing and consultancy
- Worked to and produced documentation to DO-254, following PIP design review gates SRR, PDR, CDR etc
- Used SmarTeam to electronically redact, store, track, control and transmit documents (classified or otherwise)

ANALOGUE DESIGN ENGINEER (CONTRACT)
Consolite Technology Ltd

Jan 2015 to Mar 2015

Specialists in all aspects of night vision lighting, including NVG compatible filters and lighting assemblies, instrument modifications and complete aircraft and ship conversions.

- Analogue design, test and investigations of LED luminaires, predominately powered from 110V AC
- Schematic capture and some PCB layout duties in EasyPC
- Design/verification/requirements engineering duties, test plans/procedures, guidelines and production support
- Peer review and systems engineering duties, EMC and environmental consultancy

Note: A list of all contract and permanent positions held prior to this date is available upon request or at <http://www.JTFConsultancyServices.com>

PROFESSIONAL MEMBERSHIPS

- The Institution of Engineering and Technology (IET) – Member (MIET)
- Engineering Council – Member (EngTech)
- Enhanced DBS Checked – Dated 11th November 2019

INTERESTS AND HOBBIES

- **Parent Teacher Association:** The PTA at my children's school. As a registered charity this aims to enrich the children's lives by funding specific school activities, projects, or items not affordable from school budget.
- **Executive Member (Nominated Parent) at 1st Sandleheath Sea Scouts:** Working closely with the section leader I represent the section at executive meetings etc.
- DIY, Gardening, Theatre, cinemas, walking, cruising and spending time with the family.
- Scuba diving (PADI qualified) - mainly in warmer waters (advanced diver).

REFERENCES

Available on request

PERSONAL

- Date of birth: 1st April 1973
- Driving License: Full (Clean)
- Married
- Non Smoker