



Westley Lansdowne

Safety Consultancy

Curriculum Vitae: Eur Ing Thomas Sproston MEng (Hons) PGCert DipNCRQ CEng MIMechE FSEng (TUV Rheinland)

Summary and Intended Trajectory:

Tom is a safety specialist with experience in assessing the safety of products, systems and services across a wide variety of domains both low risk and complex / highly regulated. His experiences include working with pure hardware, programmable electronic and pure software based systems and equipment, working with the operators, manufacturers and duty holders as necessary.

He is as comfortable working at concept / system level as at component / item level and is noted for his ability to understand and unlock intractable safety concepts and challenges.

He is presently expanding his practice to support Expert Witness requirements in high value civil court cases on the basis of his experience leading projects in highly-regulated safety environments.

Key Competencies:

- Safety Strategy Development within complex multi-stakeholder / partner environments
- Integration of independent safety arrangements
- Development of Complex Systems
- Analysis, Development and Justification of Safety Instrumented Systems
- Work planning, Programme development and resource planning
- Safety Process and Procedure Development
- Stakeholder, Personnel, Attribute Management
- Project Risk Management
- Interface with Regulators, Customers and Suppliers
- Extensive Technical Method Experience:
 - Hazard and Risk Assessment
 - Planning Safety Measure inspections / examinations
 - Safety Functional Requirements derivation
 - Safety Functional Requirements justification
 - Fault Tree / Event Tree
 - Fault Schedule
 - Hazard Log
 - Weibull Analysis
 - 5 Whys / 8 D Problem Solving
 - DMAIC / DMADV Improvements Projects
 - HAZOP

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Unit 16 Premier Drum Works, Canal Street, Wigston, Leicestershire LE18 4PL

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Registered in England and Wales, Company No: 08510318 .

- FMECA
- FRACAS
- SIL Targeting / Function / Component Classification
- SIL Verification
- Highly Accelerated Reliability Growth Testing
- Extensive Standards Experience:
 - CS-E / CS-25 / CS-33 (Civil Aerospace)
 - UK Defence Standards
 - Def Stan 00-055
 - Def Stan 00-056
 - UK Criminal and Civil Safety Law
 - Health and Safety at Work Act 1974
 - Management of Health and Safety at Work Regulations 1999
 - Regulatory Reform (Fire Safety) Order 2005
 - Nuclear Installations Act 1965
 - Ionising Radiation Regulations 1999
 - IAEA / Civil Nuclear
 - ISO 26262 (Automotive)
 - ARP 4754A / 4761 (Aerospace)
 - DO-178B / DO-254 (Aerospace) – Trained to a Delegated Engineering Representative standard for DO-254
 - BS EN 61508 / BS EN 61511 – Certificated to a recognised standard by TueV Rheinland
 - Expert Witness – Safety Management Arrangements and Safety Analysis

Key Contracts / Positions (Larger Clients)

- Nov 2023 - Present : Safety Specialist, Application Software Safety, Submarines (Vehicle Control)
- Sept 2022 – Nov 2023 : Safety Project Lead, Application Software Safety, Submarines (Vehicle Control)
- Jul 2020 – Sept 2022 : Safety and Systems Engineering Consultant, Submarines (Vehicle Control)
- July 2019 - April 2020 : Body and Trim Safety Specialist, Automotive
- Nov 2018 – July 2019 : Safety Consultant, Nuclear Site Safety
- Oct 2013 – Feb 2019 : Safety Consultant, Submarines (Whole Boat)
- Oct 2012 - Oct 2013 : Safety Consultant, Rail Vehicles

Previous Employed Positions

- Jan 2010 - Sept 2012 : Safety Engineer, Nuclear Plant (Submarine)
- Sept 2007 – Jan 2010 : Safety and Reliability Engineer, Large Fleet Aeroengines

Key Business Outcomes in last 12 months (Other Workstreams)

- Fire Risk Assessment – Leisure premises including development of a seating strategy and associated evacuation plan for a small concert venue
- 'Small Client' Defence Work:
 - Bid support
 - Production of Technical Manuals for an equipment portfolio
 - Project management of materials justification production

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- Review of Various minor safety engineering deliverables for a Tier 1 contractor
- Expert Witness training completed
- Expert Witness services taken to market
- 'Safety product' development

Professional Development

- Training
 - 2022 – 2023 Cardiff University / Bond Solon Expert Witness Certificate (Civil)
 - 2021 – Functional Safety Engineer, Safety Instrumented Systems (TUV Rheinland) #22106/21
 - 2020 – Certification of Hardware (DO-254) - Patmos Engineering Services, Inc.
 - 2018 to 2019 - NCRQ : Level 6 Diploma in Applied Health and Safety
 - 2018 - Fire Protection Association : C06 Fire Risk Assessment
 - 2013 – Technis Ltd. : Functional Safety and Reliability Course
 - 2010 – Liverpool John Moores University : Postgraduate Certificate in Risk and Safety Management
 - 2003 to 2007 – Lancaster University : Master of Mechanical Engineering
- Professional Registrations
 - 2021 – Functional Safety Engineer, Safety Instrumented Systems (TUV Rheinland) #22106/21
 - 2012 – Engineering Council UK (through IMechE) : Chartered Engineer
 - 2012 – FEANI : European Engineer

Other Interests

Tom maintains his leisure time restoring classic cars, learning languages (Spanish, German and Welsh) and building his skills in 3D design (3D scanning, CAD systems and 3D printing)

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