Stuart Chandler

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QUALIFICATIONS SUMMARY

An articulate result-driven professional with extensive experience coordinating with Product/Engineering teams on the implementation and monitoring of data analytics. Skilled in advising on the design, installation, and commissioning of new equipment/products by delivering actionable insight into data quality issues through advanced visualisation tools.

► **Data Analysis:** Orchestrate data acquisition strategies across multiple systems and execute technical tools and analytical techniques to include reliability modelling, predictive analytics, fault tree analysis, Weibull analysis, root cause analysis and failure analysis, Data Reporting, Analysis and Corrective Action System (DRACAS).

► **Logistics Engineering Skills:** Expertise in maintenance procedures (RCM, CAD Modelling), database development, Logistics Support Analysis (LSA), Integrated Logistics Support (ILS), and Reliability, Availability and Maintainability (RAM).

► **Project Management:** Possess a combination of technical and business expertise to support the delivery of wide-ranging technical and engineering projects.

► **Key Attributes:** Interpersonal skills with the capability to collaborate across the organisation and driving win-win negotiations for all parties. Commitment to excellence in deliverables, adept in team leadership, and utilise sound judgement in gathering, managing, and analysing data.

EDUCATIONAL BACKGROUND

Full-Stack Web Development, 2/2020 to Present
CODE INSTITUTE, Coventry

PhD in Systems Engineering, Paused in 10/2014
DURHAM UNIVERSITY, County Durham, UK
Doctoral Thesis Topic: "*Through Life Systems Engineering Design and Support of Renewable Energy Systems*"

MSc in Systems Engineering, Graduated 7/1995
BRUNEL UNIVERSITY, Middlesex, UK

Engineering Council Part II, Graduated 6/1990
SOUTHAMPTON INSTITUTE OF HIGHER EDUCATION, Hampshire

HND: Computer-Aided Engineering, Graduated 6/1989
SOUTHAMPTON INSTITUTE OF HIGHER EDUCATION, Hampshire

OND: Engineering Technology, Graduated 6/1986
COVENTRY TECHNICAL COLLEGE, West Midlands

Publications*: "Holistic Design Analysis" – Published in the International Journal of Simulation Systems Science and Technology in 6/2004; "Through Life Systems Engineering Design and Support with SysML" – Published in Procedia CIRP by Elsevier in 12/2013*.

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PROFESSIONAL EXPERIENCE

GENERAL DYNAMICS LAND SYSTEMS

Senior Testability / HUMS Engineer (3/2015 – 2/2020)

Provide engineering and technical direction for problem and risk definition, analysis, requirement development, and implementation for complex systems to meet safety and supportability specifications. Determine failure trends and analysis, prognostic, and diagnostic implications of designs through the execution of FMECA, BIT, Health and Usage Monitoring System (HUMS) Data Analysis, and Prognostic Algorithms.

Selected Contribution:

- Mapped fault codes from armoured vehicles to failure modes and converted CAN-Bus data files into an excel human-readable format.

DURHAM UNIVERSITY

PhD Student (5/2012 – 10/2014)

Developed a model-based system engineering design tool operating on a single computer with SysML integrated into multiple engineering domains and simulation technology.

Selected Contribution:

- Authored and published an Engineering Research Paper in an International Journal before NASA published a similar paper.

ROLLS-ROYCE DEUTSCHLAND

Life Cycle Engineer (2/2012 – 4/2012)

Identified, analysed, and interpreted data trends/issues and made recommendations for improvement. Leveraged reliability statistics acquired through RAM and Statistical Analysis with Weibull in collaboration with cross-functional teams to develop, test, implement, and track solutions.

Selected Contributions:

- Conducted reliability studies for the AP400 turboprop engine in Germany, collected, and plotted three data sources (historically similar engines, test bench, and flight trials) for the High-Pressure Compressor on the TP400 turboprop engine fitted to the military transport aircraft A400M.

BAE SYSTEMS SAUDI ARABIA

ILS Engineer (4/2011 – 9/2011)

Provided Integrated Logistics Support (ILS), including Logistics Support Analysis (LSA), and SysML for model-driven systems engineering. Guided the design of command and control systems in Saudi Arabia using SysML.

Selected Contribution:

- Utilised SysML – Rhapsody to document and explore the support system requirements for the Saudi Arabian nation-wide C4 computer network for mapping to the support solutions for future validation and verification purposes.

THALES

ILS Engineer (3/2009 – 12/2009)

Served as the ILS lead responsible for undertaking Reliability, Availability, Maintainability (RAM), LSA, and Life Cycle Cost (LCC) analysis functions to remedy and solve complex system requirements.

Selected Contribution:

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- Commissioned the use of 3D-XML for virtual Ease of Maintenance Assessments and Maintenance Task Analysis (MTA).

ELECTRON SOLAR WIND LIMITED – A SOLE PROPRIETORSHIP COMPANY

Director and Contracting Engineer - Owner (7/2008 – 3/2014)

Supervised and analysed all functions related to the RAM, LCC, and ILS contractual requirements while supporting projects. Scheduled estimates on RAM/LCC functions. Led RAM/LCC and ILS operations on contracted projects related to the cost, schedule, and milestones. Negotiated contracts that required skills in 3D SolidWorks modelling, SysML, Visio, and Access and Excel with SQL.

Selected Contribution:

- Awarded a research grant for a new renewable energy system design that resulted in a UK patent - https://www.ipo.gov.uk/p-ipsum/Case/PublicationNumber/GB2501939

BAE SYSTEMS LAND

ILS Manager (4/2006 – 2/2008)

Conducted ILS and Whole Life Cost Modelling (WLCM) for Armoured Fighting Vehicles (AFV). Analysed, optimised, and validated the maintenance aspects of the design to include level of repair, maintainability, and testability. Supported the maintenance plan and LCC deliverables.

Additional Experience upon request