Curriculum Vitae

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PROFILE

Highly experienced **Chartered Ergonomist & Human Factors Specialist** with 17 years' experience working across a broad range of industries.

EXPERIENCE SUMMARY

August 2021 – Present: Freelance Human Factors / UX Specialist (**Human System Interactions LTD.**) offering services to the Defence, Nuclear, Oil & Gas and Healthcare Sectors. Recent activities include:

- Human Factors Design and Safety Case Support across the Nuclear Sector (**Sellafield Ltd., NNL, DSRL, HMNB Devonport, AWE**).

- Human Factors support to the Oil & Gas Sector, Human Factors Screening, Valve Criticality Analysis, Safety Critical Task Analysis & development of novel welding inspection software (**PD&MS, Altera, United Living, Cadent Gas**).

- Development of the Human Factors Nuclear Learning Pathway (**CIEHF**).

- Independent review and website storyboarding assisting with Task Analysis Software launch (**Salus Technical**).

- Human Factors Integration role acting as an interface between Systems Engineering, UX Designers and the Customer (**General Dynamics**).

- Human Factors Intelligent Customer and INSA Reviewer across several high-profile projects. Offering support to process improvement, Human Factors Integration and safety / design documentation review (**Sellafield Ltd., DSRL**).

- Developed several key elements of the curriculum guidance in support of the National Patient Safety Syllabus (**AOMRC**).

July 2016 – August 2021: Human Factors Consultant (**Abbott Risk Consulting**) offering Safety Case / Design support services across the high hazard industries. Key activities included:

- Team lead for many high-profile projects. Responsible for Human Factors Integration across the design lifecycle (**Sellafield Ltd.**).

- Reactive incident investigations, unpicking causation and identifying interventions / recommendations (**Sellafield Ltd.**).

- Safety substantiation of operational tasks (**Sellafield Ltd.**).

- Glovebox Design Lead (**NIS Ltd. & Nuclear New Build).**

- Human Factors Reviewer of error analysis and substantiation work (**HMNB Devonport**).

August 2007 – July 2016: Various Human Factors roles held including team leader positions (**BAE Systems**).

KEY SKILLS

- Application of Human Factors techniques such as Safety Critical Task Analysis, Predictive Workload Assessment and Situation Awareness Assessment.

- Human Reliability Assessment (including identification, analysis and reduction) utilising techniques such as THERP, HEART, JHEDI, SHERPA, Fault Tree Analysis and STAMP.

- Incident investigation, unpicking causation and identifying appropriate interventions / recommendations.

- Systems Theory, Systems Engineering and the integration of Human Factors using such methods.

- Project management: time, cost, and task management.

- Report writing to a professional standard.

QUALIFICATIONS

Higher Education
- Systems Engineering MEng (Hons) – Loughborough University

- Ergonomics (Human Factors) MSc – University of Derby

Other Qualifications
- System Safety & Engineering Management Part A – University of York

- System Safety & Engineering Management Part B – University of York

- STAMP Masterclass - Massachusetts Institute of Technology

PUBLISHED WORK

- Understanding Sensory Cue Loss and Cue Replacement in an Unmanned Air Vehicle Ground Station.

- Systems Modelling as a bridge between Human Factors and Technical Systems.

- Using STAMP to bridge the gap between HRA and Technical System Safety.