

(Martyn) Luke Johnson BEng (Hons)

Personal Statement

Chemical Engineer and engineering manager with 16 years' experience in the Oil and Gas Sector, working at the interface between engineering, industrial software and digital product development. My career has progressed from hands-on simulation and software development into product delivery and management, solution architecture, people management and wider engineering leadership. My experience covers the full product and project lifecycle, from requirements identification and developing technical and commercial proposals through to planning delivery, leading multidisciplinary teams for project delivery, acceptance testing and moving into long term support and maintaining long-term customer relationships. I enjoy running and leading technical projects, bringing customers, commercial teams and engineers together to define practical solutions that meet operational needs, and that can be delivered effectively, creating lasting value for both the customer and the wider business.

Core Competencies

Management and Leadership

Engineering Management · People and Team Leadership · Digital Strategy and Roadmapping · Product Development · Project and Delivery Management · Solution Architecture · Stakeholder Management · Recruitment and Mentoring

Commercial and Customer

Technical Sales · Business Value and Prioritisation · Account Management · Customer Engagement · Requirements Definition · Technical and Commercial Proposals · Costing and Estimation · Customer Training and Support

Technical and Domain

Industrial Software · Dynamic Process Simulation · Digital Twins and Operator Training Simulators · Chemical and Process Engineering · Unity, 3D and XR · PLC, SCADA, DCS and OPC Process Control & Instrumentation, Cloud Deployment and AWS, AI, Cursor, Claude Code, OpenAI Codex.

Employment History

Technical Simulation Consultants Ltd

Sept 2008 – approx. Oct 2009; July 2010 – October 2026: *Specialist developer of dynamic process simulation, operator training, digital twin and immersive learning systems for the energy and process industries.*

April 2026 to October 2026: Development Manager

Ownership of TSC's wider engineering software function, with an increased focus on longer-term development planning, product strategy and identifying capability gaps and market opportunities for TSC and its software portfolio.

- Lead the wider engineering software function across simulation, 3D/XR, cloud and web-based digital platforms whilst still also being involved technically in these areas.
- Scope development work, review estimates and timescales, and plan resources against technical and commercial priorities.
- Introduce milestone-based delivery with defined outcomes, requirements and acceptance testing.
- Manage development effort as a costed resource, improving visibility of resource use, priorities and return on investment.
- Identify engineering capability gaps and translate them into prioritised digital development initiatives with clear requirements, delivery plans and business value.
- Lead the development of a new AWS-hosted eLearning and XR content-delivery platform, incorporating AI-assisted authoring, WebXR experiences, LMS integration, interactive training content and cloud-delivered simulation, creating a differentiated new product capability for the business.

July 2018 to April 2026: 3D Development Manager

Led TSC's 3D Studio while combining people management, product ownership, solution architecture and commercial responsibility across immersive training, digital twin and industrial software projects.

- Lead the 3D team, including priorities, resource allocation, mentoring, recruitment and delivery across multiple concurrent projects.
- Technical and commercial lead for TSC's Siemens COMOS Walkinside reseller relationship, supporting vendor engagement, solution definition and customer delivery.
- Product Owner and solution architect for TSC's Virtual Plant and immersive learning products, integrating dynamic simulation, Unity-based environments, control-room systems and cloud delivery.
- Supported sales and business development through requirements capture, solution definition, product demonstrations, technical and commercial proposals, and representation at customer meetings and international exhibitions.
- Managed key customer accounts, including Halliburton, Centrica Storage and Liberty Steel, maintaining relationships from early opportunity through delivery, support and follow-on work.
- Led major projects including BP's Walkinside based Immersive Training Simulator in collaboration with Siemens and the UKRI-funded Liberty Steel rolling-mill digital twin, coordinating simulation, 3D development and partner delivery.

July 2014 to July 2018: Senior Simulation Engineer

Progressed into a technical leadership and customer-facing role, taking responsibility for complete industrial training solutions from initial proposal through to delivery and long-term support.

- Project Lead and Account Manager for the Centrica Storage full-site Operator Training Simulator, responsible for technical and commercial proposals, customer engagement, project delivery and ongoing support for the UK's largest natural gas storage facility.
- Lead Engineer for the TPS200 Three Phase Separator training system, covering research and development, process equipment and instrumentation selection, PLC programming, SCADA and Emergency shutdown system testing, installation, commissioning and customer training.
- Delivered and maintained training systems for customers internationally, combining practical field engineering with simulation, automation and software integration.
- Joined TSC's Sales and Senior Management teams in 2015, supporting solution definition, technical proposals, customer demonstrations, exhibitions and product showcases.

July 2010 to July 2014: Simulation Engineer at Technical Simulation Consultants Ltd (TSC)

Developed high-fidelity dynamic process simulations and operator training systems, building experience across chemical engineering, software development and customer project delivery.

- Created dynamic compressor-station and gas-storage simulations for National Grid and AMEC, including detailed transient-response and compressor-surge studies based on P&IDs, isometrics and operating data.
- Developed additional hydraulic modelling capability within TSC's C-based simulation platform to improve the accuracy of pressure-drop, flow and system-response calculations.
- Delivered the first Centrica Storage Methanol Recovery Operator Training Simulator, enhancing the platform's thermodynamic and fluid-dynamic modelling to accurately represent binary distillation and establish the foundation for later full-site OTS work.

September 2008–approximately October 2009: DIS Placement Student

- Contributed to the redevelopment of TSC's generic simulation product range, helping define the visual style, process graphics, user-interface standards and development guidelines used across the new generation of training simulators.
- Rebuilt and enhanced simulations covering natural-gas treatment, oil-and-gas separation, compression and process control, whilst working alongside experienced simulation engineers and subject-matter experts.

Education & Professional Development

- BEng (Hons) Chemical Engineering, 2:1 — Loughborough University with Placement (DIS), 2006 – 2010
- [IChemE](#) – Associate Member, working towards CEng
- [PMP](#) – Working towards PMP certification
- [ILM Level 3 Leadership and Management](#)
- Full UK Driving Licence

Interests

- Sim racing, home servers and self-hosted technology, mountain biking, PC/VR gaming, A/V, astronomy, live music, music festivals, and socialising with friends and colleagues.