

Quintus Fernandes

+44 (0)7494378001 quintus.ferns93@gmail.com

PERSONAL STATEMENT

An accomplished Techno Managerial professional with extensive experience in managing and delivering high-stakes engineering projects, including the co-management of a Hydrogen-Powered Aircraft design project. Passionate about strategic innovation, technology marketing, and sustainable solutions. Adept at leading projects from concept to completion with a focus on efficiency and innovation. Recognized for strong leadership, problem-solving skills, and a commitment to green technologies. Seeking to leverage expertise in project management, system-level design, and strategic business models in a Product Support Manager role to drive organizational success and innovation in the aviation industry.

KEY ACHIEVEMENTS

- **Project Leadership:** Successfully led and managed Project Fresson, a £18 Mn Hydrogen Electric Aircraft initiative, showcasing advanced project management and leadership capabilities.
- **Innovative Solutions:** Played a pivotal role in designing and managing the Iron Bird Test Rig for hydrogen fuel cell propulsion systems, contributing to advancements in green aviation technologies.
- **Cost and Efficiency Optimization:** Managed a portfolio of 12 projects totalling £2 Mn, consistently delivering results under budget and ahead of schedule, underscoring efficiency and strategic project execution.
- **Recognition and Awards:** Twice awarded the Chairman's Award at Cranfield Aerospace Solutions for outstanding contributions, reflecting leadership, innovation, and commitment to excellence.
- **Technical Expertise:** Engineered four patents, contributing significantly to technological advancements in the industry through innovative design and process improvements.
- **Global Experience:** Directed cross-functional teams across India, South America, and Europe, optimizing product development and increasing operational efficiencies by over 50%.

CAREER HISTORY

Cranfield Aerospace Solutions — Senior Project Manager **December 2019 – Present**

In my role as Senior Project Manager at Cranfield Aerospace Solutions, I have been at the forefront of managing and delivering some of the most advanced projects in the aviation industry. This position has required me to blend my technical expertise with strong leadership capabilities to drive projects that are both innovative and aligned with industry needs for sustainability and efficiency.

- **Leadership of Highly Technical and Diverse Teams:** Successfully led and coordinated multifunctional teams composed of engineers, designers, and technicians, both remotely and on the ground. My teams included experts in hydrogen fuel cell technology, systems integration, aerodynamics, and propulsion, as well as professionals in compliance, marketing, and commercial strategy. By fostering an environment of collaboration and innovation, I ensured that each team member's expertise was leveraged to meet project objectives efficiently and effectively. This experience has strengthened my ability to manage complex workflows and maintain team cohesion across different geographic locations.
- **Project Management and Strategic Execution:** Spearheaded the co-management of the UK's first commercially available hydrogen-electric airplane project, overseeing everything from initial concept design to final testing. I implemented robust project management frameworks, including Earned Value Management (EVM), to monitor project progress, control costs, and manage risks. My strategic approach to project execution not only ensured that deliverables were met ahead of schedule but also under budget, resulting in significant cost savings and operational efficiencies.
- **Technical Expertise and Innovation:** Led the engineering design and development of the Iron Bird Test Rig, a critical component in testing and validating hydrogen fuel cell propulsion systems. This project demanded a deep understanding of advanced propulsion technologies and required meticulous attention to detail in design and integration. By successfully managing the technical intricacies of this project, I demonstrated my ability to handle complex engineering challenges and drive innovation in green technology solutions.

- **Supplier and Stakeholder Engagement:** Managed the entire lifecycle of supplier engagement, from market surveys and inquiries to negotiation, contracting, and final delivery of work packages. My ability to align supplier capabilities with project requirements was key to ensuring timely and high-quality deliverables. Additionally, I regularly interfaced with key stakeholders, including regulatory bodies, to ensure that all projects adhered to the highest standards of safety and compliance.
- **Actionable Outcomes and Continuous Improvement:** Developed and implemented customized tools for effective portfolio management and project tracking, which enhanced overall project efficiency and visibility. These tools have been instrumental in streamlining workflows, reducing bottlenecks, and ensuring that all project milestones were achieved on time. Furthermore, I established processes for continuous improvement by integrating feedback loops and performance metrics, which have led to ongoing refinements in project management practices and technical outputs.
- **Cross-functional Collaboration and Problem-solving:** Frequently acted as the primary interface between engineering, commercial, compliance, and marketing teams to ensure alignment on project goals and deliverables. This cross-functional collaboration was crucial in overcoming technical and logistical challenges, particularly in the development of cutting-edge technologies like hydrogen-electric propulsion systems. My ability to solve complex problems and drive consensus among diverse teams was a key factor in the successful delivery of these projects.

TEGA Industries — Assistant Manager, India, South America & Europe: 2015 - 2019

During my time at Tega Industries, I honed my skills in leadership, technical innovation, and strategic growth, managing diverse teams across multiple regions and driving significant business outcomes.

- **Global Team Leadership:** Managed a core team engineers and an extended team across India, South America, Australia, and Europe. Focused on mentorship, fostering cross-cultural collaboration, and enhancing team performance.
- **Strategic Market Expansion:** Drove the expansion of the product line from 1 million to 120 million in a single fiscal year through strategic asset management, market analysis, and aligning product development with market needs.
- **Technical Innovation:** Engineered solutions that boosted product efficiency by 50% using advanced methodologies like bulk material flow analysis (EDEM). This significantly improved product life expectancy and customer satisfaction.
- **Process Optimization:** Led the shift from corrective to preventive maintenance, authoring a shift manual that reduced downtime and maintenance costs through data-driven approaches.
- **Client Engagement:** Provided technical advisory to clients in Peru, Chile, and Europe, strengthening client relationships and securing long-term partnerships.
- **Knowledge Sharing:** Authored and presented four technical papers at international conferences, showcasing thought leadership and contributing to industry innovation.
- **Talent Development:** Managed summer internship programs, accelerating intern development and supporting the company's talent acquisition strategy.

EDUCATION

MSc Aerospace Vehicle Design — Cranfield University, UK

- **Group Design Project:** Innovated a landing gear system for a supersonic business jet, enhancing drag reduction and cyclic loading efficiency.
- **Individual Thesis:** Pioneered the design of an Urban Transportation System integrating next-generation propulsion concepts and hybrid fuel systems.

B.Tech Mechanical Engineering — Indian Institute of Technology, Dhanbad

- Focused on heat flux analysis and optimization of machining technologies, equipping with a strong foundation in engineering design and analysis.

SKILLS, INTERESTS & EXTRACURRICULAR ACTIVITIES

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- **Project Management:** Experienced in managing large-scale engineering projects, with a focus on green technologies and sustainable solutions.
 - **Technical Expertise:** Proficient in design and simulation tools (AutoCAD, CFD Fluent, and Ansys FEA).
 - **Global Collaboration:** Demonstrated ability to lead and collaborate with cross-functional teams across multiple geographies.
 - **Languages:** Fluent in English, Spanish, and Hindi, enabling effective communication in diverse environments.