FLAVIA FERREIRA

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ABOUT ME

I am Flavia Ferreira, a manufacturing engineer with 7 years of experience in this field, hardware manufacturing, project management, supply chain, and leadership. My expertise lies in successfully delivering new products to the market, with a passion for optimising processes, conducting data analysis using tools like Python, Rest APIs, etc., and other data management tools such as PLMs and ERP Systems. I am recognised for my leadership style, leading by example and thriving within collaborative team environments. I take pride in consistently delivering excellence and viewing challenges as valuable learning opportunities. My career aspirations revolve around a commitment to continuous growth and a desire to explore new challenges in diverse fields, utilising my extensive experience while acquiring new skills. Within the audio industry, I have actively contributed to the community by providing technical support and serving as a business consultant to small brands.

MY SKILLS

Project Management — Process Development ‣ Lean Six Sigma Methodologies ‣ Team Leadership ‣ Product Lifecycle Management ‣ Continuous Process Improvement ‣ Personnel Training ‣ BOM Management ‣ Cost Management
Tools — Python ‣ Snowflake ‣ HTML ‣ CSS ‣ REST APIs ‣ NetSuite ‣ Arena ‣ SAP ‣ Microsoft Power Query ‣ Microsoft Power BI ‣ Microsoft MS
Languages — English, Spanish, Portuguese

PROFESSIONAL EXPERIENCE

Production Engineer —- Focusrite Audio Engineering Limited (Berlin and High Wycombe) — From November 2021 - November 2023

Production Engineering Team Lead (Trainer)

‣ Conducted comprehensive inductions for new team members, ensuring a smooth assimilation into operational workflows.
‣ Reviewed and aligned Engineering Change Orders (ECOs), facilitating the integration of objectives and key results (OKRs) with organisational goals.
‣ Collaborated within a dynamic team to address areas requiring improvement, including material shortages and cost reduction measures.

PLM System Trainer

‣ Conducted process enhancement initiatives, both internally and across affiliated companies, during a period of organisational expansion.
‣ Introduced and optimised systems and processes for training new personnel across various departments, including Logistics, Service, Operations, Hardware, and Mechanical Design.
‣ Developed software solutions for data processing, resulting in a remarkable 50% increase in productivity through procedural refinement and workflow optimisation, utilising tools such as Youtrack, Confluence, and Jira, in collaboration with multiple disciplines, such as IT, Power BI, and Data teams.
‣ Demonstrated proficiency in rectifying and enhancing the Arena PLM database through Python scripting and API utilisation.
‣ Facilitated seamless process adaptation and the integration of manufacturing data for new companies, contributing to organisational growth.

Cost Management

‣ Successfully managed NPI cost tracking, consistently delivering accurate FOB updates to stakeholders.
‣ Effectively managed material cost fluctuations, including integrated circuits (ICs) and inductors, employing data-driven strategies.
‣ Collaborated closely with the sourcing manager to negotiate and secure favourable contract pricing with distributors, resulting in substantial annual savings of approximately $55,000 across three critical components used in multiple SKUs.
‣ Demonstrated proactive problem-solving by identifying and resolving production-related challenges, employing clear communication with stakeholders to prevent future issues, and proposing practical and effective solutions.

Supply Chain Management

‣ Proficiently managed End-of-Life (EOL) components and alternates, especially those with extended lead times, mitigating potential production delays.
‣ Pioneered the implementation of a streamlined process in collaboration with the production engineering team, hardware department, operations, and external vendors.
‣ Successfully transitioned from an Excel-based data tracker to the use of Youtrack, significantly reducing validation and release times, leading to a remarkable 40% boost in productivity.
‣ Addressed a critical connector shortage in the Scarlett 3rd Gen series, responsible for a substantial portion of revenue (around £3Million), ensuring a timely resolution that was pivotal for meeting financial year-end targets and supporting new product introductions dependent on this component.

Project and Process Development

‣ Assumed responsibility for maintaining BOMs for products in mass production and New Product Introductions (NPIs). Collaborating with the engineering teams and communicating efficiently with the project management team and other stakeholders on the project milestones and risks.

- Developed a highly efficient Python script that drastically reduced BOM processing time from 2 days to just 15 minutes.
- Streamlined workflows, ensuring same-day releases of BOMs, software, firmware, artworks, and more by effectively collaborating with engineering teams.
- Enhanced productivity through the efficient management and dissemination of manufacturing data to vendors via Engineering Change Notifications (ECNs).

Certification
- Served as the liaison between compliance teams and external partners (CSA, BLUETOOTH SIG, WIFI ALLIANCE, NEMKO, etc.), facilitating the management and submission of regulatory documentation for product compliance in various global territories (US, UK, Canada, Japan, etc.).

Design Optimisation
- Focused on implementing DFx principles to optimise manufacturability and assembly processes.
- Contributed to enhancing efficiency and standardisation across all affiliated companies within the group, aligning with broader organisational goals and objectives.

Sustainability
- Led sustainable initiatives by researching various options and materials in collaboration with external contract manufacturers.
- Achieved an outstanding 80% reduction in plastic usage during a New Product Introduction (NPI) project.
- Notable achievements included the replacement of plastic seals with paper seals, substitution of plastic ties with paper wrapping, and the elimination of PE Foam in favor of a robust cardboard infrastructure capable of supporting product weight.
- Extended sustainable practices to other SKUs while adhering to budget constraints, optimising product dimensions to reduce both shipping costs and carbon emissions.

Production and QC Manager —— Mod Devices GmbH (Berlin) — From July 2020 - July 2021

Production Planning and QC
- I strategically planned, coordinated, and meticulously documented every step of production and quality control processes. From project kick-off to mass production. This involved thorough validation, hands-on hardware verification, and proactive collaboration with diverse engineering teams, such as mechanical and firmware.

Hardware Debugging
- Navigating Linux-based hardware challenges, I took care of documenting issues and making sure everything flowed smoothly for the factories. From preparing reports to offering hands-on support, my focus on solving problems helped ensure a trouble-free deployment of hardware systems.

Prototyping and NPIs
- Crafted and validated prototypes for crucial hardware development, with a focus on New Product Introductions (NPI). Executed hands-on soldering, meticulous debugging, and sourcing and validating alternate components.

Risk Management and Process Improvement
- I took a proactive approach in identifying and communicating potential risks to stakeholders, ensuring a timely mitigation strategy to prevent production delays and issues. This included managing shortages of components and maintaining a low failure rate in production.

Factory Test
- Collaborated effectively with external partners (distributors and contract manufacturer) to facilitate the seamless transition of products into Mass Production. This involved visiting the factory to deploy the factory test and providing training to personnel on the assembly process for the new product. Focused on implementing and improving quality controls throughout the entire process.

Logistics, Operations and Customer Support
- I effectively managed logistics and operations, covering production, fulfillment, and comprehensive customer support to ensure operational excellence. I also handled order fulfillment, shipping products to distributors and customers. Furthermore, I took charge of servicing and debugging faulty units returned by customers, maintaining continuous communication with them to provide updates on the repair status.

Production Manager ——- Patch Point GmbH (Berlin) — From September 2018 - February 2020

During my time at Patch Point as a Production Manager, I had the privilege of contributing to several high-profile projects. Among these accomplishments, I take particular pride for having assembled from scratch all Serge systems and the TTSH (clone of the ARP2600) for NYU (New York). My responsibilities at Patch Point encompassed a diverse range of critical tasks, demonstrating my comprehensive skill set and commitment to excellence.

- Methodically documented and established streamlined processes to ensure operational efficiency.
- Led a team of personnel, providing supervision and comprehensive training to ensure optimal performance.
- Applied technical expertise in soldering, assembly, testing, and precision calibration of intricate instruments.
- Managed the procurement of components and production materials, ensuring seamless workflow.
- Leveraged problem-solving skills to troubleshoot hardware issues and facilitate swift resolutions.
- Delivered the implementation of an inventory management system, optimising production line organisation for enhanced productivity.

EDUCATION
Bachelor Degree in Law (University of Alicante - Spain)
Music Business Administration (Beatlabs Academy)
Snowflake for Developers (Udemy)