CONTACT

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SKILLS

Project Management

Process Development

Lean Six Sigma Methodologies

Team Leadership

Product Lifecycle Management

Continuous Process Improvement

Personnel Training

BOM Management

Cost Management

Design Optimization (DFx)

Sustainability

Python

SQL

Snowflake

HTML

CSS

REST API

ERP

PLM

Microsoft Power Query

Microsoft Power BI

Microsoft MS

Microsoft 360

Jira

Youtrack

GitHub

FLAVIA FERREIRA

Manufacturing & NPI Engineer | Data Analysis | Project Management & Supply Chain

With 7 years of experience in manufacturing, hardware, and software development, I bring expertise in project management, supply chain, and leadership to drive successful product launches. Proficient in optimizing processes, I excel in data analysis using Python, Rest APIs, and other data management tools like PLMs and ERP Systems.

Recognized for my leadership style and ability to thrive in collaborative team environments, I consistently deliver excellence. I view challenges as valuable learning opportunities, showcasing a commitment to continuous growth. In the audio industry, I have actively contributed to the community by providing technical support and serving as a business consultant to small brands.

WORK EXPERIENCE

PRODUCTION ENGINEER · 2021 - 2023

FOCUSRITE AUDIO ENGINEERING LIMITED (HIGH WYCOMBE, UK)

Software Development and Data Analysis
- Led the development of a data processing app using the Streamlit framework, significantly improving the efficiency of data workflows within the team.
- Implemented Python scripts to process BOM (Bill of Materials) files and analyze cost data, culminating in the generation of precise FOB (Free on Board) reports for presentation to the business. This optimization reduced the BOM processing time from two days to a mere 15 minutes, ensuring data accuracy and timely releases to the factory.
- Formulated and executed a strategic business case to integrate the data processing application with Snowflake, a cloud-based data warehousing platform. This integration facilitated streamlined updates to the PLM (Product Lifecycle Management) system, eliminating the need for manual data processing and reducing the cost by up to 10K/year. in API calls. This achievement established a centralized and accessible database.
- Orchestrated a seamless integration between Snowflake and the PLM system, leveraging APIs (Application Programming Interfaces) and Snowflake connectors to facilitate rapid and precise updates to the database. This approach eliminated complexities associated with conventional Python scripts, resulting in a 40% increase in operational efficiency.
- Facilitated the integration of processed data into Power BI, enhancing data visualization for more strategic insights. These enhancements optimized data accuracy, processing speed, and overall data pipeline efficiency, demonstrating a commitment to continuous improvement and innovation.

Project and Process Development
- Assumed responsibility for maintaining BOMs (Bill of Materials) 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.
- Streamlined workflows, ensuring same-day releases of BOMs, software, firmware, artworks, and more by effectively collaborating with engineering teams. Utilized Jira and Youtrack for tracking project milestones and requirements, based on Agile methodology.
- 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.).

Cost Management
- Successfully managed NPI cost tracking, meeting budget constraints while ensuring optimal cost efficiency. And, providing consistent and accurate FOB updates to stakeholders.
- Effectively navigated material cost fluctuations, employing data-driven strategies to process the data, moving away from an Excel-based process to an automated one, and using tools such as YouTrack and Jira to communicate internally and with external partners.
- Negotiated and secured favorable contract pricing with distributors in collaboration with the sourcing manager. This resulted in significant annual cost savings across critical components, impacting multiple SKUs (around 50K for only three components).
- Demonstrated problem-solving skills by identifying and resolving production-related challenges. Employed clear communication with stakeholders to prevent future issues and proposed 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.

EDUCATION

Bachelor of Law
Universidad de Alicante

2008-2011

Audio Recording
SAE Institute Barcelona

2011 - 2012

Music Business Administration
Beatlabs Academy

2016-2017

CERTIFICATES

Snowflake for Developers
Udemy
2022

Hands-On Essentials: Data Warehousing Workshop
Snowflake
2024

SQL for Data Analysis
Udemy
2024

Collaboration, Marketplace & Cost Estimation Workshop
Snowflake
2024

LANGUAGES

English
Spanish
Portuguese
French

REFERENCES

Andy Land
Head of Sustainability at Focusrite Audio Engineering ltd.

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Valeria Cirillo
Sourcing Manager at Focusrite Audio Engineering ltd.

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- Successfully transitioned from an Excel-based data tracker to the use of Youtrack, significantly reducing validation and release times. This led to a remarkable 80% boost in productivity.
- Delivered a comprehensive analysis of the Scarlett 3rd Gen series, addressing a critical connector shortage responsible for a substantial portion of revenue (around £3 Million). Ensured a timely resolution crucial for meeting financial year-end targets and supporting new product introductions dependent on this component.
- Conducted detailed supply chain analysis, implementing Key Performance Indicators (KPIs) for optimized performance.

PLM Trainer
- Spearheaded process enhancement initiatives during organizational expansion.
- Optimized training systems for new personnel across various departments, including Logistics, Service, Operations, Hardware, and Mechanical Design.
- Developed software solutions, achieving a remarkable 50% increase in productivity through procedural refinement and workflow optimization. Utilized tools such as Youtrack, Confluence, Jira, and Power BI, in collaboration with the data engineering and IT teams.
- Rectified and enhanced the Arena PLM database by creating Python scripts and utilizing APIs; streamlined the data retrieval process, improving the overall efficiency of the team.
- Facilitated seamless process adaptation and integration of manufacturing data for new companies, contributing to organizational growth.

Production Engineering Team Lead (Trainer)
- Facilitated thorough inductions for new team members, ensuring smooth integration into operational workflows.
- Reviewed and aligned Engineering Change Orders (ECOs), facilitating the integration of objectives and key results (OKRs) with organizational goals.
- Collaborated within a dynamic team to address areas requiring improvement, including material shortages and cost reduction measures.

PRODUCTION MANAGER
2020 - 2021

MOD DEVICES GMBH (BERLIN, GERMANY)

Production Planning and QC
- Strategically planned, coordinated, and meticulously documented every step of production and quality control processes, following Standard Operating Procedures (SOP).
- 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
- Navigated Linux-based hardware challenges, ensuring effective documentation of issues and seamless workflows for factories.
- From preparing detailed reports to providing hands-on support, played a crucial role in facilitating a trouble-free deployment of hardware systems.

Prototyping and NPIs
- Crafted and validated prototypes for hardware development, executing hands-on, sourcing, and validating alternate components.

Risk Management and Process Improvement
- Proactively identified and communicated potential risks to stakeholders, ensuring timely mitigation strategies to prevent production delays and issues.
- Effectively managed shortages of components, contributing to maintaining a low failure rate in production.

Factory Test
- Collaborated effectively with external partners, including distributors and contract manufacturers, to ensure the seamless transition of products into Mass Production.
- Visited the factory to deploy factory tests and provided training to personnel on the assembly process for the new product.

Logistics, Operations, and Customer Support
- Effectively managed logistics and operations, encompassing production, fulfillment, and comprehensive customer support, ensuring operational excellence.
- Handled order fulfillment, efficiently shipping products to distributors and customers.
- Took charge of servicing and debugging faulty units returned by customers, maintaining continuous communication to provide timely updates on the repair status.

PRODUCTION MANAGER
2018 - 2020

PATCH POINT GMBH (BERLIN, GERMANY)

- 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.
- Delivered the implementation of an inventory management system, optimizing production line organization for enhanced productivity.