

Flavia Ferreira



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ABOUT ME

I am a dedicated manufacturing engineer with over 6 years of experience in this field, supply chain, and leadership. Delivering new products to the market. I am passionate about optimising processes, data analysis and project management. Known for leading by example and thriving in collaborative team environments, I take pride in delivering excellence and view challenges as valuable learning opportunities. My career aspirations revolve around continuous growth and seeking new challenges in diverse fields where I can leverage 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

Microsoft Power Query ▶ Microsoft Power BI ▶ Microsoft 365 ▶ Product Lifecycle Management ▶ Electronics Technology
▶ Consumer Electronics ▶ Electronics Manufacturing ▶ PLM Tools (Arena & SAP) ▶ REST APIs ▶ Data Wrangling ▶ Python
▶ NetSuite ▶ Lean Six Sigma Methodologies ▶ Continuous Process Improvement
▶ Languages : Spanish, Portuguese, English

PROFESSIONAL EXPERIENCE

Focusrite Audio Engineering Limited — November 2021 - Present / Production Engineer
(Berlin - High Wycombe)

- ▶ **PLM System Trainee:** During a period of organisational expansion, I identified opportunities for process enhancement both internally and within affiliated companies. These were the results after my first year:
 - Introduced systems and processes to train new personnel across various departments (Logistics, Service, Operations, Hardware and Mechanical Design)
 - Software development for processing data: The results were a 50% increase in productivity through procedural refinement of the backlog and workflow optimisation implementing Tools such as Youtrack, Confluence and Jira, In collaboration with multiple disciplines (IT, Power BI, Data)
 - Improved existing settings and rectified the Arena PLM database using Python scripting and API utilisation. After process validation, I facilitated documentation and templates to ease the team's daily workflows.
 - Facilitated seamless process adaptation and integration of manufacturing data for new companies.
- ▶ **Production Engineering Trainee:** Additionally, I facilitated the integration of new team members into our operational workflows. This involved conducting comprehensive inductions, reviewing Engineering Change Orders (ECOs), and providing support in aligning their objectives and key results (OKRs) with organisational goals. Our collaborative efforts as a team focused on addressing areas requiring improvement, such as material shortages and cost reduction measures.
- ▶ **Sustainability:** As part of the sustainable initiatives within the company - I researched multiple options and materials in collaboration with our external contract manufacturer. Achieving an 80% reduction in plastic usage in my New Product Introduction (NPI) project. Notable improvements included the replacement of plastic seals with paper seals, substituting plastic ties with paper wrapping, and eliminating PE Foam in favour of a robust cardboard infrastructure capable of supporting product weight. These sustainable practices extended to other SKUs while adhering to budget constraints. We optimised product dimensions, reducing both shipping costs and carbon emissions.
- ▶ **Bill of Materials (BOM) Management:** I assumed responsibility for overseeing the maintenance of the Bill of Materials (BOM) for products in mass production and New Product Introductions (NPIs). A key deliverable in this capacity was the timely release of manufacturing data to vendors through Engineering Change Notifications (ECNs). In addressing the challenge of a time-consuming process due to the format limitations of our PLM system, I developed a Python script that significantly reduced processing time from 2 days to a mere 15 minutes. This efficiency enabled me to promptly review data with the hardware team and facilitate same-day releases.

- **Component Engineering:** My responsibilities encompassed the management of End-of-Life (EOL) components and alternates, particularly those with extended lead times, to mitigate potential production delays. Given the material shortages experienced in 2021 and 2022, I took the initiative to document and implement a new process in collaboration with the production engineering team, hardware department, operations, and external vendors. This process improvement involved transitioning from an Excel-based data tracker to the use of Youtrack, thereby streamlining internal communication and significantly reducing validation and release times. Consequently, our productivity increased by an impressive 40%. A notable instance was the management of a connector shortage that impacted the production of larger SKUs in the Scarlett 3rd Gen series, which accounted for a substantial portion of our revenue (71%). Timely resolution of this issue was critical to meeting financial year-end targets and supporting the development of new product introductions reliant on these components.
- **Cost Management:** My role included NPI cost tracking, reporting FOB updates to stakeholders, and managing material cost fluctuations, including items such as integrated circuits (ICs) and inductors. Collaboratively working with the sourcing manager, we successfully negotiated contract pricing with distributors to align with targeted budget goals. This resulted in substantial savings of approximately \$55,000 per year (only in three components) used in multiple SKUs. Additionally, I proactively identified and resolved production-related challenges, communicating effectively with stakeholders to prevent future issues and proposing pragmatic solutions.
- **Design Optimisation:** Implementing Design for Manufacturing (DFM) and Design for Assembly (DFA) principles was a key focus of my role. This initiative aimed at optimising manufacturability and assembly processes, ultimately enhancing efficiency and standardisation across all affiliated companies within the group.

Mod Devices GmbH — July 2020 - July 2021 / Production and QC Coordinator
(Berlin)

- Planning, implementation and documentation of production and quality control processes
- Repair of defective hardware, including documentation and customer communication
- Construction and validation of prototypes for hardware development (NPI)
- Cooperation with external services providers to release the product to Mass Production
- Logistics for production, fulfillment, and customer support

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

Patch Point is a contract manufacturer in Germany with clients like for brands like Ciat Lonbarde, Serge by Random Source, and some products from The Human Comparator such as Two Thousand Six Hundred (clone of the Arp 2600) and the SY1 (clone of the Syncussion)

Out of many other costumers, I'm proud to be the person who built all the Serge systems and the TTSH for the University of New York (US). At Patch point my responsibilities were:

- Documenting and setting up processes
- Staff management & Training
- Soldering, Assembling, Testing & Calibrating the instruments.
- Procurement of components and production materials
- Troubleshooting hardware
- Setting up an inventory system and organisation of the production line

Konstruktiv GmbH— 2018 Prototyping Assembly (Contractor)
(Berlin)

Koma Elektronik GmbH— 2018 / Production Line Technician (Contractor)
(Berlin)

Winter Modular SL — 2017 / Production Line Technician (Contractor)
(Barcelona)

Befaco SL— 2016 - 2017 / Production Line Technician (Contractor)
(Barcelona - Sweden)

- General Assembly of all products
- Repairing & Troubleshooting
- Quality Control & Testing

EDUCATION

Bachelor Degree in Law (University of Alicante - Spain)
Music Producer (SAE Institute)
Music Business (Beatlabs Academy)
Snowflake for Developers (Udemy)

OTHERS

- Mentor for the Audio Developer Conference Mentorship Program (2023)
- Interview: Attack Magazine "5 Women in Tech" (2023)
- Magazine Feature: Elektor Magazine "Women In Tech" (2022)