R&D Engineer / Project Manager

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**Summary**

* **3 years** of experience as an **R&D Mechanical Engineer** & **Project Manager** with a strong background in **process** and **production engineering.**
* Specializing in **end-to-end product development** in the **medical devices** and **defense industries**.
* Skilled in **transitioning products** from R&D to mass production, managing **NPI** processes, and ensuring **regulatory compliance** (ISO 13485, FDA).
* Hands-on expertise in **mechanical design, DFM**, tooling, **verification** & **validation protocols**, and **cross-functional collaboration** with manufacturing and QA.
* Deep understanding of **production environments**, simulations, and **design validation.**
* **B.Sc. in Mechanical Engineering & Biomechanics**

**Work Experience**

2022 - 2024  **R&D Project Engineer** **/ Manager**, MIS Technologies

* **Led the full lifecycle** of the company’s **flagship project**, from requirements gathering to production transfer.
* **Managed NPI processes**, ensuring smooth transition from R&D to mass production for medical devices.
* **Designed** and **developed** mechanical parts and assemblies for dental implant systems, applying **DFM principles** to optimize manufacturability and cost.
* **Created jigs** and **tools** for **QA, production**, and **R&D teams**, improving testing efficiency and assembly workflows.
* Defined and executed **verification** and **validation protocols** (V&V) in compliance with **ISO 13485** and **FDA** standards.
* Conducted strength calculations, tolerance analysis, and **risk assessments**, documenting all R&D activities per regulatory requirements.
* **Collaborated cross-functionally** with manufacturing, packaging, logistics, procurement, and regulatory departments to align project goals and execution.  
  Utilized **SolidWorks** to model complex mechanical systems and **reverse-engineer solutions** to field issues.
* **Led technical design reviews** and presented engineering concepts at various project phases to ensure alignment and feasibility.
* **Drove continuous improvement** for existing product lines, focusing on performance, reliability, and regulatory compliance.

2020 - 2021 **Mechanical Engineer / Mechanical Planner**, Israel Navy

* **Designed mechanical parts** and production aids for **multidisciplinary projects.**
* **Led simulation** of a flotation system to test electronic components, including **resistance calibration** for motor systems.
* **Used NX software** for **3D modeling** and **technical drafting**, while training drafters in best practices for modeling and documentation.
* **Collaborated** with production, measurement, and chemical lab teams to ensure seamless integration and manufacturability of designs.
* Supported mechanical engineers in **prototyping**, documentation, and **design validation** tasks.
* **Drove improvements** and **maintenance** of production assemblies and infrastructure to enhance operational efficiency.
* **Reviewed** and **produced detailed engineering drawings**, ensuring technical accuracy and alignment with development goals.

**Education**

2017 - 2021 **B.Sc. in Mechanical Engineering, Biomechanics,** GPA: 86, Ort Braude Academic College

**Military Service**

2012-2015 **Staff sergeant** – "Kfir" division

* Courses: Lifeguards, First aid, Army weapons and technologies.

**Software and Knowledge**

**MATLAB, SolidWorks, NX,** Office, **OBS, DaVinci.**

**Languages**

**Hebrew** – Fluent I **English** – very good

**Volunteer Experience**

* Volunteer at Felidae Center with Wild animals, South Africa
* "Perach" scholarship – tutor at Karmiel's local high school.