Arshak Amirbekyan

Mechanical Engineer

Innovative, passionate, and detail-oriented Mechanical Engineer with 4+ years of experience designing and sustaining motorized blowers, nuclear cables, replacement medical devices. At current company, increased production yields by performing root-cause analyses (RCA) and updating technical drawings. Also designed a new motorized blower from concept, to R&D, to feasibility verification, to a released product. Seeking to leverage my expertise to join your team as a Senior Mechanical Engineer.

WORK EXPERIENCE

Mechanical Engineer — June 2022 - Present

ResMed Motor Technologies Inc., Chatsworth, CA

- Developed a new motorized blower from concept to release by multi-tasking rotordynamic, vibration, and noise analyses under tight deadlines in a fast-paced environment.
- Sustained released products by performing root-cause analyses and updating models/drawings, using PTC Creo, to generate a more robust design.
- Implemented Agile methods and project management skills with Jira/Confluence for both sustaining and development tasks.
- Performed tolerance stack-up analyses, evaluated functional limits, and provided design decisions to improve new/released products.
- Improved ways-of-working within the team by developing an in-house tolerance stack-up template for official organization-wide use to standardize and streamline the design process.
- Consistently recognized as an exemplary contributor within the organization in terms of documentation and project management.

Mechanical Design Engineer — July 2021 – June 2022

Parker Meggitt Aerospace, Simi Valley, CA

- Exposure to radio frequency (RF) cable assemblies with designs including SiO2 insulation and OFHC wires.
- Technical lead for nuclear cable material verification which comply per Nuclear Regulator Committee (NRC) specification code 10CFR50.
- Trained new employees on the material verification process, reviewed Quality Assurance Documents (QAD) forms, and presented project statuses to satisfy customer lead times.

Mechanical Engineering Intern — May 2019 – Jul 2021

Parker Meggitt Aerospace, Simi Valley, CA

- Redlined Boeing B-52 cable tension regulator part drawings to update aerospace standards (MIL-STD, ASME, AMS, etc.) to meet current manufacturability requirements.
- Performed a Qualify by Similarity Analysis (QBSA) to streamline part qualification, thus circumventing testing, by reviewing part history and noting justifying that minimal changes occurred.

Drafter — Aug 2017 – May 2019

Replacement Parts Industries Inc., Simi Valley, CA

- Drafted assembly documents for replacement medical equipment using AutoCAD, Photoshop, and Excel.
- Produced an Excel Visual Basic for Application (VBA) code that reduced product development BOM paperwork by 90%.

CONTACT

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EDUCATION

Master of Engineering

Major in Mechanical Engineering
CSU Northridge
Northridge, CA – May 2021
GPA: 3.7 *with a Published Thesis Paper*

SKILLS

Engineering Specific:

- GD&T
- Drafting & CAD
- Data Analysis & Reports
- Root Cause Analysis
- Design of Experiments
- New Product Implementation
- Rapid Prototyping

Technical Knowledge:

- Vibration & Acoustic Analysis
- Rotor Dynamics & Motor Design
- Tolerance Stack-Up Analysis
- Composite Design
- 3D Printing

Tools and Programs:

- SolidWorks (Modeling & Simulation)
- PTC Creo / AutoCAD
- MATLAB / Excel VBA / Python
- Ansys
- JMP / Minitab / Tolcap
- Jira / Confluence
- ADRE 408 DSPi
- Microsoft Office Suite

Certifications

- Plastics Joining Technologies Theory & Design Certificate
- Plastics Engineering Technology Certificate (Injection Molding)
- Scrum & Agile Certified