

LIANA DIMAURO MECHANICAL ENGINEER

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📍 San Francisco Bay area

in liana-dimauro

4.5 years of experience in design, process, manufacturing and field service engineering. Looking to obtain a full-time position in a Mechanical Engineering role.

Skills

SOFTWARE

Solidworks

FEA Analysis

Autodesk Inventor

Matlab

Autodesk AutoCAD

PTC Creo

Minitab

Simulink

Adobe Illustrator

Labview

Xfoil

Arduino Programming

Fusion 360

Python

MECHANICAL

3D Printing

CNC Machining

Instron

CMM Measurement Equipment

OGP Smartscope

OTHER

GD&T

Gage R&R

Metal and Plastic Fabrication

Various Plastic Manufacturing

Technical Writing

Prototyping

Design of Experiments

Materials Science

Product Design

Employment

Matternet

Design Engineer

Mountain View, CA
May 2021 to Dec. 2022

- Designed components and sub-assemblies for existing and future aircraft and station.
- Utilized 3D CAD, prototyping, materials knowledge, and GD&T standards to complete design reviews.
- Successfully managed aircraft sub-assemblies from prototype phase through EVT/DVT/PVT.
- Implemented part and assembly BOMs/file management using ECO releases in PLM software Arena.
- Developed, designed, documented, and executed test methods and validation tests for safety critical parachute system.
- Wrote instruction manuals and manufacturing assembly procedures to transition designs into production.
- Lead root cause analysis and solution implementation for manufacturing, quality, and design issues. Worked with mechanical, electrical, ID, and supply chain team members to continuously improve.
- Worked closely with contract manufactures and suppliers to initiate new tooling, products, and achieve stable production of mass produced parts. Established quality criteria for incoming goods and inspection.
- Directed customer site evaluation system project which included mechanical, electrical, and software oversight and development.

TA Instruments

Field Service Engineer

Northern CA
Oct. 2019 to Apr. 2021

- Installed, calibrated, and repaired thermal lab instrumentation with minimal supervision. Resolved customer issues by debugging mechanical, electrical, and software malfunctions via diagnostic evaluation and customer input.
- Trained customers on machine and software functionality, maintenance, and troubleshooting skills for specific instrumentation. Recommended method changes to optimize data collection procedures.
- Directly responsible for prioritizing onsite arrival response based on urgency. Responsible for ordering machine component parts, maintaining equipment inventory levels, arranging travel plans, and allocating sufficient time per customer visit.
- Provided excellent customer service and supported customers through the process of reducing downtime to increase overall productivity.

Thermo Fisher Scientific

Design Engineering Co-op - New Product Development Department

Rochester, NY
Jan. 2018 to June 2018

- Assisted in the development of new products and supported existing products in the laboratory plastics division.
- Created and implement engineering test protocols and reports for different parts including a novel pipette, cell culture plates and other medical devices.
- Created metrology for Smartscope and CMM equipment – Helped develop fixtures in Solid Works and programs in MeasureMind to accurately measure plastic parts, incorporating tolerance stack up.
- Contributed to design analysis processes including Design Verification and Technical Reviews, checking the engineering inputs and testing capability of new products and processes while ensuring regulatory compliance.
- Implemented time studies, created and completed learning time frame for parts to remain functional using dimensional, pressure and user simulation testing.
- Determined shelf life of products via DOE to account for time, temperature, appearance and functional creep.

Anaren Microwave

Process Engineering Co-op - Space and Defense Department

Syracuse, NY
Jan. 2017 to Sept. 2017

- Designed fixtures in Inventor to expedite the production process.
- Worked with operators to come up with new ways to make their processes more efficient and ergonomic on the production floor.
- Conducted process design validation experiments, analyzed issues that the devices were experiencing at various stages of production.
- Worked with new projects, and predicted possible problems before production started.

FltPlan.com

Customer Service/ Technical Support

Southbury, CT
May 2013 to Dec. 2016

- Attracted potential customers by answering product and service questions, suggested information about other products and services.
- Resolved technical problems by clarifying the customer's complaint, determined the cause of the problem, and explained the best solution to the problem.

Education

Rochester Institute of Technology

Bachelor of Science Mechanical Engineering

Deans List at Rochester Institute of Technology

RIT Presidential Scholarship

Society of Women Engineers- Mentor

Aug. 2014 to May 2019

Projects

Senior Design - Project Manager

Water Powered USB charger (Prototype)

- Maintained the role of project manager which included organizing and planning for the team; kept team members accountable and ensured the project remained on track.
- Designed and built many different prototypes incorporating 3D modeling, ordering parts and materials, and building in RIT's machine shop.
- Wrote and executed test plans for testing the design was waterproof, functional electrically and mechanically, and durable.
- Outcome: The team was successful in creating an independent, waterproof, portable turbine which had the capability to charge a cell phone when rotating at a certain rpm.

Aug. 2018 to May 2019