

William Musson

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Professional Summary

Experienced in ISO 9001, FDA compliance and Class I Div1 environments. Design Conformance with API 610, ASME, ANSI, ATEX, IECEx & NEC.

Work Experience

Engineering Department Manager

Euramco Safety Inc.-SpringValley, CA

January 2023 to December 2025

Design, test, assist in manufacturing & product specifications for Industrial safety equipment. Design new products using Solidworks models, Assemblies & drawings.

Designer/consultant.

Using Solidworks and Autocad. Full time Caretaker

January 2020 to December 2023

for my elderly father. Due to his age and covid, we kept him at home.

Designer/ME

LASER OPTICS & MECHANISMS-San Diego, CA

January 2019 to December 2021

Responsible for the designing and fabrication of the new product line. Redesign of old products for manufacturability Modeling and CAD Designs created in Solidworks

January 2020 to December 2020

Designer.

PRODIGY-San Diego, CA

January 2014 to December 2018

Design 3D products, create shop prints and assist in the manufacture of equipment for the Food & beverage Industry. Designs created in Solidworks, AutoCAD.

Design & Mechanical Engineering.

EDDY PUMP Corp-El Cajon, CA

January 2013 to December 2015

Work as a ME to create a new product line. Design & test, Industrial components.

Using CAD programs, to create Assemblies & working drawings in Solidworks AutoCAD & Inventor.

Senior Design

VORTEX ENGINEERING-San Diego, CA

January 2011 to December 2012

Engineering and consulting.

Designing, testing, purchasing & product specifications for large Industrial machines located in Explosion Proof (Cl d1&2) environments. CAD using Solidworks models, Assemblies & drawings, & AutoCAD Electrical for P&IDs, IOM, submittals.

Engineering Consultant

SPORTS PRO FITNESS-La Jolla, CA

January 2009 to December 2011

Develop new designs & implement improved methods for increasing capacity in the manufacturing process. Produced machine & patent drawings in Autocad & Solidworks.

Senior Designer

DISCFLO CORPORATION-EI Cajon, CA

January 2007 to December 2009

Engineering Department Supervisor

DISCFLO CORPORATION-EI Cajon, CA

January 2007 to December 2009

Engineering Department Supervisor answering directly to the President of the company. Responsibilities: Creating new manufacturing processes, 3D models, parts& assemblies, providing the in-house machining & fabricating depts. with drawings using Autocad & Solidworks, overseeing the designs & analysis (Cosmos) of our existing products as well as directing R&D teams for all new products. Responsible for the exchange of documentation and information between our customers including

ISO reqs., IOM manuals, ECO, ECN, and compliance with (API 600+, ASME, NEMA, ATEX) materials & design Specification. Improving the legacy components, Pump castings, housings impellers, bearing frames, and all mounting for industrial installations.

Designer

Separation PROCESSES Inc.-Carlsbad, CA

January 2006 to December 2007

CADD Department answering directly to the President of the company.

Responsibilities: Working with the project managers in creating the designs of our existing projects and future proposals. The CAD systems used were AutoCAD along with Microstation/Intergraph.

R&D Engineer

PYRON SOLAR INC.-San Diego, CA

January 2002 to December 2006

Designer & tested Oversaw and contributed in the many areas of development for a new and innovative Concentrating Photovoltaic Solar power system. Worked with all principles in all technical & fabricating areas; from early design to prototype fabrication, through process development and testing (bench/field) phases and materials specifications. Conducted and directed performance validation tests for single units and the full size prototype, including the thermal cooling, tracking, electrical and mechanical systems. Fabricated, designed, specified prototype units for integration and experimentation. Implementing preventative measures for galvanic, electrolysis & environment corrosion.

Program Manager

MICRO-MODE PRODUCTS-EI Cajon, CA

January 2000 to December 2002

Operated as the HSS (now Boeing) Vendor appointed onsite PM for all Satellite flight hardware. At Micro-Mode, oversaw purchase order and scheduling for the

Spaceway/Direct TV and several other programs. Reported directly to our President as well as Boeing's Purchasing Agents, Program Director and Development Engineers.

Additionally, generated all capacity reports and PDR / CDR reviews.

Applications Engineer

Discflo Corporation-Santee, CA

January 1999 to December 2000

Responsibilities were for the sales and marketing of the vast product line.

Communicated directly with the end users as well as our international network of distributors. Duties included the elucidation of the patented designs and principles of our proprietary system. Also generated new areas of revenue for

Discflo by contacting and evaluating new resellers.

January 1993 to December 2000

Education

Mechanical Engineering

San Diego State University-San Diego, CA

Skills

- Microsoft Office
- Solidworks & Cosmos/(FEA)
- ANSI/ASME Y14.5M D&T
- Microstation / PRO E.
- Communication skills
- Extensive Office, Excel & Word
- Autodesk Products including 3D Studio
- INVENTOR/AutoCAD Mech&Electric