

WARN BURT
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FUNCTIONAL EXPERIENCE:

My career as a Mechanical Engineer spans a broad array of fields forming a solid layer of foundation for projects large and small. I have served as draftsman, designer, engineer, manager, and craftsman as well as entrepreneur. Below lists some of the firms I have had the privilege of designing for in the fields of optics, commercial and medical products, surveying and heavy equipment, military, prototype to millions of copy designs, jewelry, stress-strain and vibration analysis, life testing, breadboard development, artistic and human forms, and packaging. Materials include castings, metals, glass, ceramics, polymers, mill and lathe work, vapor phase materials, lasers, adhesives, environmental coatings, moldings, elastomers, communications, commercialization, logo and graphic design, manuals, proposals, cost analysis, and estimating. Software experiences include solidworks, proengineer 2001i, cosmos, mechanica, mathcad, and the microsoft office suite. With communication I am committed to and succeeded in raising the standard of customer documentation for design and exceed expectation of deliverables with respect to time and value of the deliverables.

WORK EXPERIENCE:

Mechanical Engineer FLIR Systems, Santa Barbara, CA 7/07-Present

Mechanical Engineering Manager Santa Barbara Infrared Inc, Santa Barbara, CA 1/05-6/70

Managed the team of mechanical engineers and designers for all of SBIR products. Worked to refine operating practices for better design control, engineering and design documentation. I worked on streamlining and configuring the ECO process for IOS 9001 certification and compliance. I work closely with the project management and manufacturing teams to quantify and organize resources for all mechanical tasks across the SBIR project field.

Senior Mechanical Engineer Santa Barbara Infrared Inc, Santa Barbara, CA 1/00-present

As Senior Mechanical Engineer I have been responsible for each new design at SBIR. The tasks include quoting new projects, projecting costs and required time for completion. I used analytical tools to evaluate the requirements of components and systems in heat transfer, stress and strain analysis, and life testing. I was regularly required to analyze systems and components for mil. spec. requirements, human factors, refractive and reflective optics, motion/electromechanical mechanisms.

Senior Mechanical Engineer/Project Manager Tagdesign, Inc, San Jose, CA 11/99-9/00

Directed design teams as technical lead and project manager. Duties include design direction, definition and optimization, project milestone, deadline and resource scheduling, tracking and documentation. Responsible for customer communication, coordinating project definition, progress, sign-off, and completed project hand off. Design fields include consumer electronics, industrial manufacturing equipment, optics, optical systems, and medical equipment.

Division Manager

Total coordination of all fields related to division management. Directed human resources, marketing, proposal and quoted generation, management of all related support fields such as office equipment and supply tracking, division management for work and cost flow (balance worksheets). Supervised and participated in resource training in the fields of CAD, FEA, Mathcad, MS Project, MS Excel, Adobe Illustrator and Photoshop, HTML.

Mechanical Engineer II Trimble Navigation Ltd. Sunnyvale, CA 6/96-11/99

Design engineer for rugged use electronic enclosures. Over 5000 hours operating Parametric Technologies Corp (PTC) ProEngineer Solid Designer and Mechanica software. Design fields include electronic package design, pressure tight aluminum castings, plastic injection molded housings and support structures, PCB design for power, digital, and RF electronics, damping mount design for use in off highway equipment. Conducted analytical analysis for vibration, stress, and thermal scenarios. Managed total product engineering from product concept development through research, scheduling, design, prototyping, testing, mass production, manufacturing and interface to product release.

Diesel System Specialist San Luis Truck Garage San Luis Obispo, CA 6/93-3/96

Trouble shooting, cost estimating, tool design, fabrication, and encompassing repairs on various manufactures of trucks and systems.

Computer Systems Aide Cal Poly SLO/SBCC San Luis Obispo and Santa Barbara, CA 9/88-3/96

Assisted users with various computers, programs and systems including RASNA, ME30, Autocad release 11 among many others.

R.V. System Mechanic Morro Bay R.V. Center Morro Bay, CA 6/92-9/94

Repair and installation of R.V. systems and retail store management. Responsible for refrigeration, heating, air conditioning, electrical, skin and frame work, personnel supervision, and customer support.

Engineering Assistant City of Santa Barbara Santa Barbara, CA 9/90-7/92

Engineering Assistant in surface water drainage analysis and street surfacing programs. Other duties included archival recovery, damage evaluation, mapping and drafting.

Heavy Equipment Mechanic/Operator Schwan Brother Excavating Santa Barbara, CA 7/85-9/90

Complete repairs and accumulated hours operating various pieces of Caterpillar equipment and semi-truck and trailers.

EDUCATION:

Bachelor of Science in Mechanical Engineering California Polytechnic University San Luis Obispo

Technical Writing Certificate California Polytechnic University San Luis Obispo

PTC Coursework: Basic and Advanced Part and Assembly, Mechanica for Thermal and Vibration Analysis

GE Plastics Design Workshop

NADCA Casting Standards in Product Design in Die Casting

The Entrepreneurial Edge and Mastery

ORGANIZATIONS and ACTIVITIES

Member of **The American Society of Mechanical Engineers**. Involved in custom automotive fabrication, kinetic art, scale model design, construction and operation, and various outdoor sports.

References available upon request