# Resume

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analysis	design	prototyping	mothining

# Rob Green

Product Design & Analysis, Prototyping & Marketing Process & Manufacturing Development Construction Drafting 208 562 7972 rob.green6@hotmail.com

# TECHNICAL EXPERTISE:

Human skills development through engaged instruction, research, and practice.
Functional & Cross Functional Management, Organizational Development.
Manufacturing design & analysis targeting single piece flow, utilizing Lean, SPC, CIP & 5S.
New Product Development & Technology Portfolio Management.
Electro-Mechanical analysis, synthesis & application design.
Product Design utilizing Solidworks, FEA, DFM, & DFMEA.

# <u>EXPERIENCE:</u>

COLLEGE OF WESTERN IDAHO: Nampa, ID

Assistant Professor - Drafting Technology

- As Program Chair role became obsolete, have continued to manage the Drafting Technical Advisory Committee and budget.
- Coordinated and executed program changes to simplify class structures by including lab and class contact hours into combined courses.
- Purchased Lidar laser scanner, initiated data collection and utilization into construction related design courses.
- Purchased laser cutter and initiated into architectural design courses.

### Program Chair - Drafting Technology

#### Fall-16 to Spring-18

- Taught physics, applied math, civil design, machine design, structural design courses.
- Work with local industry and technical advisory committee to improve curriculum.
- Implement metrics that balanced student knowledge outcomes, software skills, and career preparation for the drafting cohort. As a result introduced and taught new HVAC design and electrical and plumbing design courses.
- Initiated class consulting projects working for industry. Classes have earned \$10,000.

Instructor - Drafting Technology

- Taught manual drafting, mfg & materials, physics, applied math, civil design, machine design, structural design, and career capstone courses.
- Initiated 3D printing into course curriculums to advance student understanding of fits and tolerances.
- Initiated coordinated class projects to replicate complex real world design environment.

### BOISE STATE UNIVERSITY: Boise, ID

Adjunct Instructor - Civil Engineering

- Requested by BSU to introduce an AutoCad class for Civil Engineers. Developed a course curriculum including design and analysis utilizing AutoCAD, Civil 3D and Revit software.
- Taught class for five semesters, introducing Finite Element and Cut & Fill Analysis topics into the C.E. program, earning excellent student evaluations each semester.

Fall-13 to Current Fall-19 to Current

Fall-13 to Spring-15

Spring-17 to Fall 2018

**Engineering Director** 

- Implemented phase gate NPD discipline in a small private company atmosphere. Industry leading new products drove revenue growth through the 2009 recession. Products launched in 2010 achieved 14% of sales by 2011. Phase gate usage reduced warranty issues by 45%.
- Put traction to cost reductions yielding 15% product cost reduction.
- Participated on the core sales team put together to sell the ProTeam company. Ultimately Emerson Electric purchased ProTeam in 2009.

#### **ROBERT BOSCH TOOL CORPORATION:** Chicago, IL

Added Skil brand Engineering Director responsibility

- Managed 27 associates and \$3.5MM expense budget for the Skil brand while maintaining responsibility for the Shared Services.
- Partner Develop and maintain a Skil brand 3 year product plan with Marketing and develop 5 year technology roadmap.
- Delivered new product launches on time, within cost, at a defined quality level. Initiated predevelopment activities to increase new product launches from 6 to 18 per year.
- Reorganized the Skil engineering department around 3 key product segments and utilized the Bosch proprietary phase gate PDP processes to achieve productivity improvements.

Engineering Director, Shared Services,

- Lead electrical engineering, advanced development, model shop, and CAD infrastructure.
- Innovations lead included digital display rip fence, world's first LiIon power tool, and table • saw flesh detecting technology. Engineering development included motor design, switch design, and electrical tool features.
- Managed 24 engineers, and a \$3MM expense budget.
- Improved productivity by 30% and costs by 10% utilizing Lean in an office environment. •
- Developed relationship with University of Glasgow to customize motor design software.
- Planned and moved engineering documentation work to India.

#### Project Leader

- Led a team of 5 development engineers 5 engineers, managed a \$1MM engineering expense budget, and \$4MM project capital budget.
- The team launched 16 new power tools over four years. Defined the product roadmap for the • Skil brand for a seven year period. One project involved retooling an automated focus factory over a 72 hour period.
- Participated in developing a proprietary Bosch New Product Development Process. Process implementation and tracking reduced average schedule slip from 14 weeks to 4 days.

#### May-98 to Oct-02

May-04 to Jun-07

#### Oct-02 to Jun-07

Jun-98 to Jun-07

Oct-07 to Jul-11

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### **ROBERT BOSCH TOOL CORPORATION:** Heber Springs, AR

Manufacturing Engineering Supervisor

- Worked in a high volume vertically integrated factory manufacturing Skilsaws. Managed four • engineers. Utilized Design of Experiments, SPC, Kaizen, CIP, torture testing, PFMEA, Visual Management, 5S, and other leading manufacturing tools to deliver results.
- Lead the implementation of a Bosch proprietary Continuous Improvement Process. Improved costs by over \$1MM per year. Improved motor manufacturing capacity by 20% utilizing Kaizen based methods.

### **PRIOR WORK:**

TECHNAVISION: San Diego, CA

- Project Engineer for design of cast ophthalmic lense blanks for the eyeglass industry.
- Innovated ophthalmic lens molds from glass to steel to reduce costs by 60%, as well as reducing manufacturing time from weeks to days.

SUTTER CORPORATION: San Diego, CA

- Engineering Supervisor for development of electro-mechanical orthopedic rehabilitation devices and artificial phalangeal joints.
- Multiple patents for orthopedic rehab innovations.

STILLMAN SEAL: San Diego, CA

- Design engineer for metal backed seals and other custom rubber molded products and tooling. •
- Utilized vibration analysis techniques to develop a multi-million dollar business designing vibration isolators for the aerospace industry.

# EDUCATION:

BSME, Iowa State University at Ames Research Assistant in near field acoustic vibration, focused on forcing-response function algorithm & testing	May-84
California Professional Engineers license, #M26694	Jan-90
MBA course work, University of Central Arkansas acctg, fin, mkt, ops mgt, business comm.	1996-1998
Idaho Teacher Certification course work, Idaho State Instruction Methods, CTE History, Curriculum Development Measurement & Evaluation.	2014-2015

### Jun-84 to Jul-88

Jul-88 to Apr-91

# Feb-93 to May-98

Apr-91 to Jan-93