

Daniel Winterhalter

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Mechanical Design Engineer

4406 E 118th Ct • Thornton, CO
<https://www.linkedin.com/in/danielwinterhalter>

Summary

As an innovative mechanical design engineer, I am seeking a position in product design or process improvement. I have extensive experience in incremental changes and process replacement. I have worked to design ground-breaking products within multiple industries. With more than a decade of experience, I am a proven problem solver who utilizes out-of-the-box thinking, working actively with cross-disciplinary and cross-departmental teams to move projects forward. I am an expert in bringing together global teams to discover, define, and implement process improvements.

Areas of Expertise

- Component Design using plastics; rubbers; cast, stamped and machined metals; optical glass
- Product Specification Development
- Product Design and Documentation
- Design for Manufacturability
- Concept to Prototype Development
- Best Practice Documentation and Implementation
- Global Business Traveler (China, Mexico, Romania, United Kingdom, domestic US)
- Process Definition & Documentation
- Leading & Mentoring Engineering Project Teams
- Global Communications and International Projects
- Local & Global Supplier Assessment
- Forensic product failure problem solving

Skills

- CAD Systems (Creo, NX, SolidWorks, SolidEdge, Unigraphics, Catia, Adams, AutoCAD, ProE)
- Geometric Dimensioning and Tolerancing
- Microsoft Office Suite (Project, PowerPoint, Excel, Word, Outlook)
- ERP systems (Enovia, Oracle, SAP, PeopleSoft, LiveMeeting, Citrix)

Experience

Zimmer Biomet (ExterNetworks Contract) 2017-Present
(Broomfield, CO)

Senior CAD Designer

- Promoted to project manager and lead team of 4 CAD Designers updating 1600+ drawings
- Completed project 10 weeks ahead of 6 month timeline
- Uses multiple CAD platforms including SolidWorks, NX, and Creo to create FDA compliant drawings for existing product lines, including addition of laser etched direct part markings.

Ongoing Entrepreneurship
Giddy T-Rex, LLC - Founder, Inventor
Present

2016-Present
2016-

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- Designed board game accessory products for the hobby and specialty gaming market
- Received multi-license software grant from SolidWorks based on strength of business plan & pitch deck
- Created functional prototypes
- Worked with international suppliers to quote and create production samples

Wear My Values, LLC - Founder, Project Manager
2017-2018

- Designed a line of social justice t-shirts; partnered with local artist to complete artwork
- Created, funded, and fulfilled a successful Kickstarter project for first design (119% funded)

Wi, Inc (Englewood, CO)

2015-2016

Process Development Lead

- Developed manufacturing processes and equipment to move from manual to semi-automated production of medical device consumables product, increasing capacity and quality
- Led Process Development team through multiple quarterly project cycles
- Continued to meet customer & supplier deadlines even with frequent specification and priority changes
- Managed team of four directly reporting engineers
- Improved existing project management, engineering, and collaborative design practices

Experience - continued

MicroMotion, Inc. (Boulder, CO)

2011-2015

Product Support Mechanical Engineer

- Led team to improve engineering change systems; focused on improving accuracy, prioritization, and communication to all world areas
- Reduced errors in customer-facing data by 30%
- Accelerated review/release cycles by 25%
- Transferred and updated documentation for 4 configurable products from acquired company to MicroMotion standards, reducing non-conformance and scrap by 10%
- Completed forensic engineering projects including water-leak problem where product failed at cryogenic temperatures. Solution reduced reported leaks by 95%
- Extensive work with international teams including global travel
- Rolled out enhancements and changes across several different world areas on staggered timelines due to inventory levels and supplier readiness

Hunter Douglas (Broomfield, CO)

2011

Mechanical Designer

- Designed labor-saving assembly fixture that reduced part damage by 20% during manufacturing process
- Created new components that commonized parts and assembly process across multiple product lines

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Kim Lighting (City of Industry, CA)

2008-2010

Project Engineer

- Integrated multiple different wireless control systems into the complete Kim line of lighting products
- Developed LED retrofit solutions for in-ground, pole-top, and area lighting fixtures
- Responsible for the integration of Induction-Fluorescent technology into four area lighting products
- Authored the business case for solar power technology that drew attention up to the president of Kim's parent company

Training & Professional Development Courses

- B31.3 Process Piping Course
- DDI - Crucial Conversations
- DDI - Essentials of Leadership
- DDI - Communicating with Impact
- DDI - Delegating with Purpose
- Process Communication Model
- VitalSmarts - Influencer
- Working Globally
- Continuous Improvement - Yellow Belt Certification
- Advanced Applications and Tolerance Stacks
- Geometric Dimensioning and Tolerancing Basics
- NX Advanced Simulation Processes
- Project Management Professional Exam Overview
- Project Management Professional Test Bootcamp
- Landmark Forum & Advanced Course
- Landmark Self-Expression and Leadership Program

Education

BSE - Mechanical Engineering

2003

University of Michigan College of Engineering - Ann Arbor, MI