

MECHANICAL ENGINEER | PRODUCT DEVELOPMENT ENGINEER | DESIGN ENGINEER

Available for on site, hybrid, or fully remote work roles

Proactive mechanical engineer known for innovative problem-solving and a track record of efficient design solutions. Experienced in hands-on project management, overseeing projects from concept to delivery.

COMPETENCIES/SKILLS

SOFTWARE: Catia V5 | Autodesk Inventor | NX (Unigraphics | Solidworks | Autodesk AutoCAD | Microsoft Office
GENERAL: Critical Thinking | Problem Solving | Strong Verbal/Written Communication | Project Management
Employee Training/Onboarding | Product Development | Cross-functional Collaboration | Design Optimization
Attention to detail | Special Assignments | Prototyping and Testing | DFMA | Continuous Learning

PROFESSIONAL EXPERIENCE

SENIOR ENGINEER –A-DEC, NEWBERG, OREGON

11/2014 – 08/2023

- Produced custom dental furniture products to suit customer needs not met by standard product offerings.
- Designed, aided manufacturing, and installed a pivotal cabinet, securing a multimillion-dollar institutional contract.
- Trained and supported for 20 professionals during enterprise-wide change to Microsoft Dynamics AX ERP system.
- Developed CAD tools for quote development, reducing turnaround time by approximately 60%.
- Developed VBA tools for documentation standardization and error reduction.

DESIGN ENGINEER –ESCO CORPORATION, PORTLAND, OREGON

05/2011 – 11/2014

- Designed high-strength cast steel wear parts for construction and mining equipment.
- Designed tooling and inspection CAD data and drawings for component parts.
- Developed, tested, and implemented innovative change in lock system to eliminate customer safety concern.
- Travelled internationally to perform first article inspections and improve over 200 outsourced non-proprietary parts.
- Used casting simulation software to validate and maximize casting integrity and efficiencies.

MECHANICAL ENGINEER (INTERNSHIP) –ARMSTRONG WORLD INDUSTRIES, SAINT HELENS, OREGON

06/2010 – 12/2010

- Assisted plant engineering staff in troubleshooting and improving plant process equipment.
- Oversaw plant compressed air system audit and upgrades.
- Secured incentives and tax credits for plant air project (~\$300k), improving efficiency and cutting operational costs (~\$40k/yr.)
- Developed plant equipment repair and improvement projects to improve reliability, safety, and hygiene.
- Participated in site-wide lean manufacturing energy kaizen event.

PRODUCT DEVELOPMENT ENGINEER (INTERNSHIP) –A-DEC, NEWBERG, OREGON

02/2008 – 08/2008

- Led redesign of tray holder accessory and designed cost-effective shield for electronics protection.
- Developed test procedures for evaluating plastic material used in product line.

MECHANICAL ENGINEER (INTERNSHIP) –HUNTAIR, TUALATIN, OREGON

03/2007 – 08/2007

- Supported manufacturing by developing assembly fixture, performed tolerance stack-up study to find interference source.
- Developed VBA tool for sales team to provide unit weight, center of gravity, and corner weights of custom HVAC equipment.

EDUCATION

B.S. MECHANICAL ENGINEERING | OREGON STATE UNIVERSITY, CORVALLIS, OREGON