

**EXPERIENCE**

**SENIOR MECHANICAL ENGINEER / PROJECT MANAGER**

**Detroit, MI**

11/2016 – present

- Prepare designs, calculations, sketches, diagrams, schematic drawings, and working drawings, and develops details and edits specifications
- Oversee the work and mentor mechanical engineers and designers
- Providing field support during installation, testing and start-up of hydro equipment in the field,
- Preparation of conceptual, development and detailed design to standards
- Participating in equipment performance testing,
- Performing hydro / power facility condition assessments
- Project Management of building services projects including coordinating multi-disciplinary teams

**SENIOR MECHANICAL ENGINEER, R&D**

**Los Angeles, CA**

04/2010 – 09/2016

- Work with project management to develop overall schedule, and manage time and tasks within schedule
- Work with physicians and other medical personnel to obtain feedback on concepts
- Performs other related duties and responsibilities, on occasion, as assigned
- Lead test method and model development
- Provide leadership of engineering projects
- Responsible for conducting Design Reviews at various development stages
- Work with internal departments and external vendors to obtain prototype parts and to understand their capabilities and limitations

**SENIOR MECHANICAL ENGINEER**

**Philadelphia, PA**

05/2004 – 02/2010

- Create simulation models to predict structural, fatigue, vibration, thermal, and flow performance of new products in development using SolidWorks Simulation
- Work with project engineering tasks or sustaining work as directed by Project Engineering Manager or Project Manager
- Pursue professional development through training, solicit feedback on performance and utilize constructive criticism towards improvement
- Responsible for new product development and on hand products drawings & BOMs & IOM management & design improvement & certification
- Develop and perform component performance testing and product verification testing
- Work as part of the development team to design, build, and validate performance of prototype systems
- Create and update documentation, directly through the use of CAD systems. Provide the primary technical resource for the development of Ultrasonics transducers

**EDUCATION**

**ILLINOIS STATE UNIVERSITY**

**Bachelor's Degree in Mechanical Engineering**

**SKILLS**

- Possess a passion for quality and strong attention to detail, particularly for product quality and product verification
- Excellent PC skills and knowledge of Microsoft Office suite of products along with knowledge and proficiency using SAP would be
- Takes action quickly/effectively in a fast paced environment completing tasks on-time/ high quality. Possesses strong attention to detail
- Corrosion/material knowledge is highly desirable
- Knowledge of and ability to design reliable and innovative mechanical systems and mechanisms for consumer products
- Fluency in FEA theory and working knowledge of FEM tools (SolidWorks Simulation, SolidWorks Flow or ANSYS)
- Direct knowledge of quality control metrics and practices, generation of quality or logistics records and logs
- Knowledgeable in applying concepts of (DFM) Design for Manufacturability and (DFA) Design Failure Analysis in design of electro-mechanical assemblies
- Able to apply basic engineering principles into realizable designs
- Working knowledge of mechanical design packages (i.e. Solid Works, AutoCad, Solid Edge)