



MASON WILSON

Senior Mechanical Design Engineer

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PROFESSIONAL SUMMARY

Versatile Senior Mechanical Design Engineer with 10 years of extensive experience in spearheading innovative design initiatives. Proficient in translating complex requirements into efficient, high-performance solutions while ensuring compliance with industry standards. Eager to leverage deep technical expertise and leadership skills to drive impactful product development and enhance operational efficiency.

WORK EXPERIENCE

Senior Mechanical Design Engineer/Executive

Quantum Solutions LLC

📅 Jan / 2018 – Ongoing
📍 Phoenix, AZ

1. Ensured thermal, structural, EMI, and acoustic efficiency and reliability in product designs.
2. Engineered advanced thermal management solutions, including customized heat sinks and air movers.
3. Invented and developed high-density interconnect systems to optimize cable management.
4. Created detailed solid models and assemblies using materials such as injection molded plastics and die-cast aluminum.
5. Conducted evaluations for CFD, structural stress, and thermal performance to validate designs.
6. Performed tolerance analysis to ensure design integrity and manufacturability.
7. Proposed a thermal adaptive control system based on validated CFD models, enhancing system performance.

Senior Mechanical Design Engineer

Crescent Moon Design

📅 Jan / 2015–Jan / 2018
📍 Portland, OR

1. Led the Equipment Engineering Group in designing and developing cutting-edge products and processes.
2. Implemented mechanical systems for both research and production, ensuring high standards of quality.
3. Developed automated processes to minimize operator intervention and enhance consistency.
4. Applied innovative concepts to design new medical devices, integrating mechanical, electronic, and software components.

EDUCATION

Bachelor of Science in Mechanical Engineering

University of Michigan

📅 Jan / 2012 – Jan / 2015
📍 Denver, CO

Focused on mechanical design, thermodynamics, and fluid mechanics.

SKILLS

Thermal Management Design



Innovation And Creativity



Sustainability Practices



Vendor Management



Technical Specifications



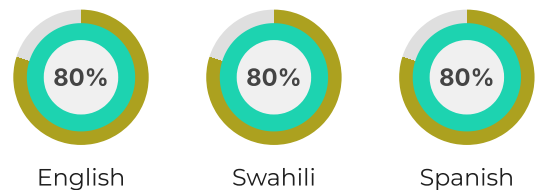
INTERESTS

- 🔧 Woodworking
- 🌠 Star Gazing
- ★ Theatre
- 🏗 Architecture

STRENGTHS

- 😊 Politeness
- 🚩 Determination
- 🚀 Ambition
- ✅ Dedication

LANGUAGES



ACHIEVEMENTS

- ★ Reduced product development time by 20% through streamlined design processes.
- ★ Led a cross-functional team to develop a medical device that improved patient outcomes by 30%.