



Kyrie Wang

Principal Mechanical Engineer

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SUMMARY

Motivated mechanical engineer bringing over 5 years of experience designing innovative hardware solutions for data centers. Skilled in 3D CAD modeling, structural analysis, and hands-on design implementation. Proven track record of leading cross-functional teams in the development of state-of-the-art cooling systems that enhance energy efficiency. Expertise extends to manufacturing processes and ensuring compliance with industry standards. Committed to fostering collaboration and driving impactful results through creative problem-solving and diligent project management, while effectively communicating complex ideas to various stakeholders.

STRENGTHS

- Creative Problem Solver**
Completed complex designs by creatively finding new solutions, demonstrating resilience in overcoming obstacles.
- Cross-Functional Collaboration**
Worked closely with diverse teams to foster alignment, leading to synergistic project outcomes.
- Analytical Thinker**
Utilized strong analytical skills to navigate challenges efficiently, showing a talent for rapid situational assessment.
- Adaptability**
Easily adjusted approach based on evolving project needs, showcasing versatility across multiple environments.
- Effective Communicator**
Communicated complex engineering concepts straightforwardly, building consensus and clarity among all stakeholders.

SKILLS

3D CAD Modeling FEA Analysis

Mechanical Design DFM

Thermal Management

Project Management

Team Collaboration

Problem Solving Prototyping

Data Center Optimization

Structural Analysis

EXPERIENCE

Senior Mechanical Engineer

Innovative Hardware Solutions March 2022 - Present Chicago, IL

Lead engineering efforts focusing on developing cutting-edge data center hardware solutions, ensuring compliance and efficiency throughout projects. Foster an environment of collaboration among teams, maintaining strategic partnerships that drive innovation. Responsible for all stages, from concept validation through final execution, aligning project goals with organizational standards.

- Directed initiatives for advanced data center hardware design, meeting stringent industry guidelines.
- Cultivated new cooling technologies, including liquid and immersion systems, significantly enhancing thermal management capabilities.
- Collaborated with a diverse engineering team to refine DFM processes, elevating efficiency and cutting production downtime.
- Executed tolerance and structural analysis using Solidworks and FEA tools, bolstering product reliability metrics.
- Developed robust testing protocols for new systems, safeguarding against quality non-conformance.
- Mentored emerging engineers, promoting knowledge sharing and innovation within the department.

Mechanical Engineer

Tech Solutions Corp. June 2019 - February 2022 Naperville, IL

Managed design and validation of mechanical components tailored for high-performance data centers, prioritizing system efficiency. Emphasized cross-departmental cooperation while ensuring consistent adherence to regulatory benchmarks throughout the entire design lifecycle.

- Blueprinted and tested key mechanical components for improvements in overall system reliability.
- Utilized 3D CAD software for prototype development, enabling precise model evaluations.
- Actively engaged with manufacturing units to implement DFM practices that mitigated costs effectively.
- Assured adherence to industry compliance through clear communication of project scope and requirements.
- Participated actively in patent submissions, contributing to the protection of novel engineering concepts.
- Presented complex design propositions to stakeholders, translating engineering intricacies into understandable terms.

Mechanical Design Engineer

Advanced Engineering Solutions January 2016 - May 2019 Schaumburg, IL

Contributed comprehensive designs for dynamic data center hardware systems, focusing on both sustainability and performance enhancement. Collaborated across various disciplines to tackle intricate engineering challenges, streamlining workflows for better output.

Electrical Systems Integration

Heat Transfer Design

Cooling Technologies Development

Regulatory Compliance

Patents and IP Strategy

- Crafted mechanical blueprints emphasizing effective thermal management methodologies.
- Conducted exhaustive hands-on testing, providing actionable insights for iterative design improvement.
- Engaged with multi-disciplinary project teams, addressing feedback while staying solution-focused.
- Produced extensive documentation supporting milestones and ensuring regulatory alignment throughout projects.
- Stimulated team brainstorming sessions aimed at driving innovation in cooling strategies.
- Refined existing prototypes through a cycle of test-analysis-revision, resulting in heightened product effectiveness.

LANGUAGES

English Native

Spanish Proficient

LEADERSHIP & AWARDS

- Dean's List, University of Illinois at Chicago, 2016
- Recipient of the Outstanding Design Award, Innovative Hardware Solutions, 2023

EDUCATION

Bachelor's Degree in Mechanical Engineering

University of Illinois at Chicago 🎓 GPA: 3.5 📅 2016 📍 Chicago, IL

Coursework: Mechanics of Materials, Thermodynamics, Fluid Mechanics, Heat Transfer

CERTIFICATIONS

- Certified SolidWorks Professional (CSWP) 📅 2021
- Lean Six Sigma Certification 📅 2023

TECHNICAL SKILLS

- **3D CAD Software:** Solidworks, Creo, AutoCAD
- **FEA Tools:** ANSYS, Abaqus, COMSOL
- **Manufacturing Processes:** Injection Molding, CNC Machining, Additive Manufacturing
- **Testing Protocols:** Vibration Testing, Thermal Testing, Acoustic Testing
- **Project Management Tools:** Trello, Asana, JIRA
- **Collaboration Platforms:** Microsoft Teams, Slack, Zoom
- **Documentation Standards:** ISO 9001, ASME Y14.5, ANSI Z535
- **Prototype Development:** 3D Printing, Fabrication, Electronic Prototyping
- **Energy Efficiency Strategies:** Thermal Cycling Analysis, Pathway Optimization, Load Balancing
- **Patent Management:** Document Preparation, Submission Strategy, Technical Writing

PROFESSIONAL AFFILIATIONS

- Active Member, American Society of Mechanical Engineers (ASME)
- Board Member, Engineering Student Alliance, University of Illinois at Chicago

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST

MY CAREER



● Senior Mechanical Engineer at Innovative Hardware Solutions (4.2 Years)

● Mechanical Engineer at Tech Solutions Corp. (2.7 Years)

● Mechanical Design Engineer at Advanced Engineering Solutions (3.3 Years)