

# Kyrie Wang

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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.

## EXPERIENCE

**Senior Mechanical Engineer** March 2022 - Present  
Innovative Hardware Solutions *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** June 2019 - February 2022  
Tech Solutions Corp. *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** January 2016 - May 2019  
Advanced Engineering Solutions *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.

- 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.

## 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** 2016  
University of Illinois at Chicago GPA: 3.5 *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

## SKILLS

- 3D CAD Modeling
- Thermal Management
- Prototyping
- Heat Transfer Design
- FEA Analysis
- Project Management
- Data Center Optimization
- Cooling Technologies Development
- Mechanical Design
- Team Collaboration
- Structural Analysis
- Regulatory Compliance
- DFM
- Problem Solving
- Electrical Systems Integration
- Patents and IP Strategy

## PROFESSIONAL AFFILIATIONS

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

## LANGUAGES

- English (Native)
- Spanish (Proficient)

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST