

Joon Hobbs

Design Manufacturing Engineer

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SUMMARY

Mechanical Engineer with over 4 years of experience in HVAC system design and development. Led initiatives to create efficient systems that adhere to industry standards, ensuring high performance and compliance. Collaborations with cross-functional teams resulted in significant design improvements and optimized project timelines. Adept at leveraging SolidWorks for precise modeling and analysis, delivering crucial engineering documents like assembly drawings and bills of materials. Proven capability in providing technical support for field installations and generating marketing materials to enhance product visibility. Passionate about innovation, continuous learning, and driving success across projects.

EXPERIENCE

Mechanical Engineer

Tech Innovations Inc. 📅 June 2022 - Present 📍 Annapolis, MD

Overseeing mechanical engineering projects focused on HVAC component design and development. Playing a key role in ensuring designs meet both customer and regulatory standards. Supporting manufacturing operations with comprehensive engineering documentation.

- Led HVAC components' design, meeting stringent compliance requirements while enhancing functionality.
- Conducted thermal and load analyses, achieving improved heat transfer and system efficiency for new products.
- Collaborated extensively with manufacturing units, producing detailed documentation such as component layouts and specifications.
- Evaluated ongoing field installations, proffering essential technical support and rectifications to ensure reliability.
- Developed impactful marketing literature and operational manuals, facilitating higher customer engagement during launches.
- Activating involvement in collaboration efforts yielded streamlined product development, significantly lowering lead times.

Junior Mechanical Engineer

Dynamic Systems LLC 📅 January 2020 - May 2022 📍 Silver Spring, MD

Focused on supporting mechanical systems development within the HVAC landscape, emphasizing safety and performance adherence. Mediated between engineering tasks and onsite implementations to drive successful project executions.

- Assisted in conceptualizing and testing efficient mechanical solutions tailored to diverse HVAC applications.
- Formulated critical engineering resources like bills of materials to guide production efforts effectively.
- Engaged directly in troubleshooting HVAC systems, resolving challenges to maintain product quality.
- Performed data-driven research that informed design enhancements and promotion of functionality within products.
- Incorporated advances in HVAC technologies through extensive professional development engagements during tenure.
- Worked closely with seasoned engineers to sharpen design precision and optimize overall project outcomes.

LEADERSHIP & AWARDS

- Certified SolidWorks Professional (CSWP) recognized for expertise in mechanical design.
- Team Excellence Award for contributions leading to outstanding project delivery timelines.

EDUCATION

Bachelor's Degree in Mechanical Engineering

University of Maryland 🎓 GPA: 3.5 📅 2020 📍 College Park, MD

Coursework: Thermodynamics, Fluid Mechanics, HVAC Systems, Mechanical Design

CERTIFICATIONS

- Certified SolidWorks Professional (CSWP) 📅 2021
- LEED Green Associate 📅 2022

TECHNICAL SKILLS

- **Design Software:** SolidWorks, AutoCAD, ANSYS
- **Office Applications:** Microsoft Word, Microsoft Excel, Microsoft PowerPoint
- **Heating & Cooling Systems:** Chilled Water Systems, Refrigerant Systems, Ventilation Systems
- **Analysis Tools:** Thermal Analysis, Load Calculation, Structural Analysis
- **Documentation Standards:** ISO 9001, ASME Y14.5, NEC
- **Testing Equipment:** Flow Meters, Pressure Gauges, Thermocouples
- **Project Management Tools:** Trello, Asana, JIRA

- **Material Selection:** Pipes, Fittings, Insulation Materials
- **Component Choosing:** Valves, Fans, Pumps, Motors
- **Standards Compliance:** UL Certification, LEED Certification, Energy Star Certification

SKILLS

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|-----------------------|---------------------------|-------------------------|-------------------------|
| • SolidWorks | • Project Management | • Engineering Design | • Schematic Design |
| • HVAC Design | • Technical Documentation | • Field Support | • Load Calculations |
| • Thermodynamics | • Microsoft Office Suite | • Product Testing | • Fluid Pumping Systems |
| • Mechanical Analysis | • Data Analysis | • Installation Drawings | • Mechanical Systems |

PROFESSIONAL AFFILIATIONS

- American Society of Mechanical Engineers (ASME)
- Society of Automotive Engineers (SAE)

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST