

# Nicolas Watkins

## Mechanical Engineer Intern

☎ (920) 555-1234 ✉ nicolas.watkins@email.com 🌐 linkedin.com/in/nicolaswatkins 📍 123 Engineering Lane, Appleton, WI 54911

### SUMMARY

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Dedicated Mechanical Engineering student with hands-on experience in problem-solving and project management. Currently pursuing a degree at an accredited university, building a strong foundation in engineering principles and practices. Demonstrates excellent organizational skills and a proactive approach to learning in fields like FEA and thermal management. Proven ability to collaborate effectively in teams, contribute innovative ideas for projects, and engage deeply with industry standards to exemplify engineering excellence. Eager to bring skills to Maverick Engineering Solutions and directly contribute to impactful projects focused on cost-effective solutions.

### EDUCATION

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#### Bachelor of Science in Mechanical Engineering

University of Wisconsin - Appleton 🎓 GPA: 3.8 📅 2026 📍 Appleton, WI

*Coursework: Thermal Management, Structural Analysis, Fluid Mechanics, Dynamics*

### TECHNICAL SKILLS

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- **Design Software:** Solidworks, AutoCAD, CATIA
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Analysis Tools:** ANSYS, MATLAB, COMSOL
- **Data Visualization Tools:** Tableau, Power BI, Excel
- **Programming Languages:** Python, C++, Java
- **Simulation Software:** MATLAB Simulink, OpenFOAM, SOLIDWORKS Flow Simulation
- **Collaboration Tools:** Slack, Microsoft Teams, Google Meet
- **Document Management Systems:** SharePoint, Confluence, Box
- **Quality Assurance Standards:** ISO 9001, Six Sigma, Lean Manufacturing
- **Safety Protocols:** OSHA Regulations, Risk Assessment, Compliance Checklists

### SKILLS

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- Solidworks
- Microsoft Word
- CFD
- Technical Documentation
- Microsoft Excel
- FEA
- Project Management

### EXPERIENCE

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#### Mechanical Engineering Intern

Maverick Engineering Solutions 📅 May 2025 - Present 📍 Appleton, WI

Contributed to engineering projects focused on cost reduction and efficiency improvements, working closely with teams to explore improvement areas. Engaged in diverse engineering disciplines, utilizing technical tools including Solidworks for design tasks. Responsibilities extended to analysis of standards, ensuring compliance while developing effective technical documentation, presentations, and simulations as needed.

- Collaborated with cross-functional teams, enhancing project outcomes in power and control systems.
- Utilized Solidworks for creating 3D models, performing modifications that led to better product features.
- Developed thorough analyses of engineering standards, ensuring adherence and quality in all outputs.
- Engaged actively in team brainstorming sessions, generating innovative solutions to operational challenges.
- Created comprehensive technical documents detailing project findings for stakeholder communication.
- Participated in design reviews and feedback sessions, significantly shifting the direction towards practical applications.

#### Capstone Project Developer

University Project 📅 September 2025 - May 2026 📍 Appleton, WI

Led a collaborative effort to design a precedent-setting renewable energy solution prototype, emphasizing sustainability and efficiency. Conducted extensive research and developed materials tailored to meet specific project criteria. Presented design outcomes to faculty and professionals, receiving commendations for innovation and impact potential.

- Spearheaded the development and execution of a resource-efficient energy prototype meeting eco-friendly specifications.
- Conducted comprehensive research on manufacturing techniques vital for prototype integrity and functionality.
- Led project management activities, ensuring timely task completion and fostering team engagement.
- Facilitated iterative testing phases to validate concept designs, adjusting based on performance metrics evaluated during trials.
- Gathered continuous peer feedback, evolving the project's components for heightened effectiveness.

- Presented key findings and insights derived from technical evaluations to curriculum evaluators.

## Research Assistant

Academic Research 📅 January 2025 - August 2025 📍 Appleton, WI

Assisted in cutting-edge research focused on thermal management, playing a crucial role in data collection and analysis. Contributions included organizing results using Microsoft Excel, collaborating in the writing of academic papers, and refining technical illustrations through CAD software. Participated in constructive discussions centered on engineering breakthroughs with faculty members.

- Contributed significantly to research focused on improving thermal systems for electronics, shaping the future applications of the results generated.
- Employed analytical skills in Excel for data organization, ensuring accuracy for hypothesis validation and subsequent reporting.
- Supported literature compilation which formed the basis for substantial findings disseminated at conferences.
- Engaged in productive discussion forums aimed at discovering new methodologies relevant to engineering subjects being explored.
- Honed technical illustration skills by producing clear representations of experimental findings through software.
- Frequent participation in seminars allowed for ongoing skill enhancement and exposure to peer perspectives.

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## LEADERSHIP & AWARDS

- Dean's List, University of Wisconsin - Appleton, 2025
- First Place, Engineering Hackathon, 2025

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## CERTIFICATIONS

- Solidworks Certified Associate 📅 2026
- Microsoft Office Specialist 📅 2025

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## PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Society, 2024 – Present
- Volunteer, Local Community Science Fair, 2025

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## LANGUAGES

- English (Native) • Spanish (Proficient)

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## ADDITIONAL INFORMATION

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

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## REFERENCES

AVAILABLE ON REQUEST