

# Kyrie Carpenter

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## SUMMARY

Dedicated engineering student ready to gain hands-on experience in a dynamic manufacturing environment. Through academic internships, demonstrated ability to apply engineering fundamentals to real-world challenges. Strong interest in continuous improvement and data analysis complements skills in safety compliance. Effective collaborator across teams fosters productivity and promotes the implementation of efficient processes. Engaged in evaluating equipment reliability and formulating solutions that enhance operational performance. Methodical and detail-oriented, with a capacity to analyze data strategically. Eager to contribute innovative ideas while learning from respected professionals.

## EDUCATION

**Bachelor of Science in Mechanical Engineering**  
Georgia Institute of Technology   GPA: 3.7  
*Coursework: Thermodynamics, Fluid Mechanics, Manufacturing Processes, Materials Science*

2027  
Atlanta, GA

## TECHNICAL SKILLS

- **Software Proficiency:** AutoCAD, MATLAB, Statistical Software
- **Engineering Concepts:** Process Optimization, Data Analysis, Safety Protocols
- **Communication Tools:** Presentation Skills, Team Collaboration, Report Writing
- **Problem Solving Methods:** Root Cause Analysis, Statistical Techniques, Experimental Methods
- **Documentation Standards:** Technical Documentation, Research Portfolios, Lab Notebooks
- **Industrial Operations:** Manufacturing Practices, Paper Science, Chemical Recovery
- **Continuous Improvement:** Lean Management, Process Mapping, Efficiency Metrics
- **Field Experience:** Safety Audits, Operational Evaluations, Equipment Troubleshooting
- **Research Methodologies:** Quantitative Analysis, Qualitative Analysis, Experimental Design
- **Project Management Tools:** Trello, Asana, Gantt Charts

## SKILLS

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|-----------------------|-----------------------|------------------------------|-------------------------|
| • Data analysis       | • Team collaboration  | • Statistical software       | • Project presentations |
| • Process improvement | • Safety compliance   | • Engineering best practices | • Safety audits         |
| • AutoCAD             | • Research techniques | • Simulated environments     | • Materials science     |
| • MATLAB              | • Root cause analysis | • Experimentation            |                         |

## EXPERIENCE

**Manufacturing Engineering Student Intern**  
University Project

January 2026 - Present  
Atlanta, GA

Supported various initiatives within a university project to apply engineering principles in practical settings. Responsibilities included intense team collaboration, process evaluation, and data analysis focused on optimizing efficiency within simulated environments. Managed multiple aspects of assigned roles while adhering strictly to safety regulations in all practices.

- Collaborated to design energy-efficient prototypes for manufacturing applications.
- Applied engineering methods to assess operational data for improved decision-making.
- Engaged actively in conducting safety audits, developing essential safety protocols.
- Utilized root cause analysis techniques to identify and resolve equipment failures.
- Presented findings in formal settings to articulate insights gained during projects.
- Employed AutoCAD and MATLAB for robust modeling and thorough data analysis.

**Student Research Assistant**  
Academic Research

September 2025 - December 2025  
Atlanta, GA

Contributed valuable assistance to research efforts aimed at enhancing chemical recovery processes relevant to paper manufacturing. Focused on laboratory experimentation and statistical data analysis, contributing significantly to overall research objectives. Collaborated closely with faculty mentors and peers to refine experimental protocols and outcomes.

- Conducted experiments analyzing impact of chemical treatments on fiber quality.
- Performed detailed data analysis using tools that informed published research studies.
- Documented processes comprehensively for reference and presentation purposes.
- Worked alongside experienced researchers on design and execution of projects.
- Networked with industry professionals during conferences to gain deeper insights.

- Maintained organized records and documentation for all research activities.

**LEADERSHIP & AWARDS**

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- Dean's List, Georgia Institute of Technology, 2025
- First Place, University Engineering Challenge, 2026

**CERTIFICATIONS**

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- OSHA 10-Hour General Industry Certification 📅 2026
- Lean Six Sigma Yellow Belt 📅 2026

**PROFESSIONAL AFFILIATIONS**

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- Member, Engineering Society, focusing on community outreach initiatives.
- Participant, University Hackathon, where developed sustainable manufacturing prototype.

**LANGUAGES**

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- English (Native)
- Spanish (Intermediate)

**ADDITIONAL INFORMATION**

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

**REFERENCES**

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AVAILABLE ON REQUEST