



# Nikolai Mckenzie

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## SUMMARY

Enthusiastic Chemical Engineering student eager to contribute expertise and collaborate within a dynamic team. Adept at optimizing chemical processes and conducting thorough analyses. Hands-on experience in improving manufacturing operations, particularly in recycling tungsten materials, showcases commitment to sustainable practices. Strong communication skills facilitate effective teamwork, ensuring successful project outcomes. Ready to support ongoing improvement initiatives that center on quality and efficiency. Motivated to leverage academic knowledge while gaining valuable industry exposure during this internship at GTP Chemical Solutions.

## EDUCATION

### Bachelor of Science in Chemical Engineering

2026

Harrisburg University GPA: 3.5

Harrisburg, PA

*Coursework: Thermodynamics, Fluid Mechanics, Materials Science, Chemical Kinetics*

## TECHNICAL SKILLS

- **Chemical Engineering Software:** Aspen Plus, MATLAB, ANSYS
- **Manufacturing Technologies:** Catalytic Processes, Polymer Chemistry, Materials Science
- **Data Analysis Tools:** Excel, R, Python
- **Laboratory Equipment:** Spectrophotometer, Titrator, Micropipette
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Recycling Techniques:** Mechanical Recycling, Thermal Recycling, Chemical Recycling
- **Safety Standards:** OSHA Regulations, Risk Assessment, Best Practices
- **Quality Management:** Six Sigma, Lean Manufacturing, Statistical Process Control
- **Research Standards:** Experimental Design, Data Visualization, Laboratory Practices
- **Collaboration Platforms:** Zoom, Microsoft Teams, Slack

## SKILLS

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|---------------------------------|------------------------------|-----------------------|-------------------------|
| • Chemical Process Optimization | • Project Management         | • Reporting Skills    | • Cross-Functional Work |
| • Data Analysis                 | • Research Methodologies     | • Safety Protocols    | • Hands-On Learning     |
| • Microsoft Office Suite        | • Sustainable Practices      | • Tungsten Recycling  | • Process Improvements  |
| • Team Collaboration            | • Experimentation Techniques | • Chemical Operations | • Communication Skills  |

## EXPERIENCE

### Chemical Engineering Intern

January 2026 - Present

University Project

Harrisburg, PA

Supported engineers in enhancing processes related to refractory chemicals at Harrisburg. Engaged directly in projects focused on manufacturing excellence and sustainability. Fostered collaboration across teams to achieve shared goals.

- Collaborated with engineers to improve chemical processes for enhanced manufacturing outcomes.
- Developed sustainable practices specifically aimed at recycling tungsten carbide materials.
- Conducted experiments assessing chemical process effectiveness, compiling insights for stakeholders.
- Utilized Microsoft Office Suite for generating comprehensive reports and presentations.
- Engaged in continuous learning to adapt to emerging materials and methodologies.
- Assisted senior engineers with troubleshooting to ensure adherence to safety protocols.

### Student Research Assistant

September 2025 - December 2025

Academic Research

Harrisburg, PA

Participated in pioneering research examining efficiencies in chemical reactions. Assisted faculty in experimental design while fostering a culture of safety and methodical inquiry.

- Executed literature reviews alongside rigorous analysis to advance chemical reaction projects.
- Contributed to designing and executing experiments targeting specific chemical properties.

- Teamed up with faculty to shape findings into actionable research publications.
- Created detailed presentations conveying research outcomes to diverse audiences.
- Implemented best practices in lab safety following guidelines developed from research results.
- Facilitated peer interactions by sharing knowledge gained throughout research initiatives.

## Project Developer

January 2025 - May 2025

### Capstone Project

Harrisburg, PA

Led a capstone project that optimized simulated manufacturing setups while mentoring emerging peers. Contributed significantly to developing frameworks evaluating chemical effectiveness.

- Directed a team effort focused on the optimization of chemical processes within a controlled environment.
- Crafted experimental designs to evaluate various reaction efficiencies.
- Analyzed results, translating observations into strategic recommendations for future experiments.
- Drafted extensive methodology documentation supporting the project's direction and outcomes.
- Presented findings at an academic conference, earning praise from industry leaders.
- Guided other students as a mentor, enhancing their understanding of chemical engineering principles.

## LEADERSHIP & AWARDS

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- Dean's List, Fall 2024
- Research Presentation Award, Spring 2025

## CERTIFICATIONS

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- Microsoft Office Specialist Certification 📅 2025

## PROFESSIONAL AFFILIATIONS

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- Member, Chemical Engineering Society, 2024 – Present
- Volunteer, Local Environmental Clean-Up Group, 2025 – Present

## 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