Kali Byrnes

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Education

University of Cincinnati **May 2026**
Bachelor of Science (B.S.) in Physics and Astrophysics | Minor in Computer Science
Bachelor of Arts (B.A.) in Mathematics

Lakeland Community College **May 2022**
Associate of Science (A.S.)
Associate of Arts (A.A.)

Professional Experience

Recruitment and Outreach Student Worker | University of Cincinnati **February 2023 – Present**

- Managed communications, 30-40 outbound calls, 5-10 inbound calls, and 50-100 emails per hour.
- Presented on panels to 10-15 prospective students, providing insights on university life and admissions processes.
- Achieved university's recruitment target of 50,000 enrolled students, an 8.6% increase in committed students.

Aviation Quality Engineering Intern | CTL Aerospace **May 2025 – August 2025**

- Revised and maintained 800+ Product Specifications, ensuring accurate revision control for production release.
- Created and updated Manufacturing Records, Nonconformance Reports, and Change in Design documentation in ERP system, ensuring traceability and compliance with aerospace quality standards, NADCAP and AS9100.
- Prepared documentation summarizing nonconformances and corrective actions for Material Review Boards.
- Inspected aerospace composite components using 3D scanners and GD&T principles to verify compliance.
- Ballooned and revised engineering drawings in DISCUS to identify key characteristics for manufacturing.

Process Engineering Intern | Lincoln Electric **May 2024 – August 2024**

- Led 3 Lean Six Sigma training cohorts, for 15-20 department heads, engineers, and external customers.
- Guided operators through continuous improvement initiatives across 40+ departments in 3 production plants, validating $600,000+ in cost savings, verified by the Finance Department.
- Built Power BI dashboards to track and visualize continuous improvement initiatives across all facilities.
- Designed shadow boards in Solid Edge, sourced materials, and coordinated installation on assembly lines to improve efficiency and minimize waste.
- Represented the Continuous Improvement Department in weekly KPI meetings with executive leadership.

Manufacturing Engineering Intern | Lincoln Electric **May 2023 – August 2023**

- Managed incoming inventory and ensured on-time delivery to production lines.
- Conducted stock audits and implemented corrective actions to improve inventory accuracy.
- Redesigned storeroom layout to maximize space and support Kaizen continuous improvement practices.

Skills

Interpersonal Skills: Public Speaking, Leadership, Problem-Solving
Technical Skills: Technical Writing, LaTeX, Lean Six Sigma, Microsoft Office, Power BI
Engineering Skills: SolidWorks, Solid Edge, Visual Studio, Mathematica, Keyence VL700, DISCUS, GD&T
Programming Languages: Python, C++, R, Wolfram

Related Experience

Rocketry Club | Outreach Coordinator **August 2022 – Present**

- Recruited members and created promotional materials. Participated in club engineering and design competitions. Pursuing NAR and Tripoli high-power rocketry certifications.

American Institute of Aeronautics and Astronautics (AIAA)| Scholar **August 2022 – Present**

- Named 2025 Rising Star in Aerospace Scholar.
- Attended technical lectures, regional and national conferences to network with industry professionals.

Women in Aviation International (WAI)| Active Member **August 2022 – Present**

- Networked with professionals in the aviation industry and attended the annual Women in Aviation Conference.