

Ali Burnett

Electrical Manufacturing Engineer Intern

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SUMMARY

Aspiring electrical engineer focused on optimizing manufacturing processes and contributing to continuous improvement efforts. Comprehensive experience in developing solutions for real-world challenges through hands-on projects and spirited collaboration. Recently applied engineering principles to enhance performance, improving efficiency in a team-oriented environment. A detail-oriented learner eager to embrace challenging tasks that contribute positively to the manufacturing team. Driven by quality in workmanship and perpetuating best practices throughout all associated projects. Seeking to further benefit the manufacturing field with innovative contributions within an inclusive workspace.

EDUCATION

Bachelor of Science in Electrical Engineering

Arizona State University 🎓 GPA: 3.8 📅 2026 📍 Phoenix, AZ

Coursework: Circuit Analysis, Control Systems, Digital Electronics, Manufacturing Processes

TECHNICAL SKILLS

- **Manufacturing Tools:** AutoCAD, SolidWorks, MATLAB
- **Project Management Tools:** Asana, Trello, Microsoft Project
- **Analysis Tools:** Minitab, Excel, R
- **Quality Standards:** ISO 9001, Six Sigma, Lean
- **Communication Tools:** Microsoft Teams, Slack, Zoom
- **Programming Languages:** Python, C++, Java
- **Simulation Software:** ANSYS, Simulink, LabVIEW
- **Safety Protocols:** OSHA Regulations, Risk Assessment, Safety Audits
- **Documentation Software:** SharePoint, Confluence, Google Docs
- **Data Visualization Tools:** Tableau, Power BI, D3.js

SKILLS

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|---------------------------|--------------------------------|-------------------------------|---------------------------|
| • Electrical Engineering | • Data Analysis | • Safety Standards Compliance | • Operational Efficiency |
| • Manufacturing Processes | • Team Collaboration | • Technical Documentation | • Prototyping |
| • Lean Methodologies | • Problem Solving | • Workflow Management | • Process Standardization |
| • CAD Software | • Production Flow Optimization | • Quality Assurance | • Testing & Analysis |

EXPERIENCE

Electrical Engineering Intern

University Project 📅 June 2025 - August 2025 📍 Phoenix, AZ

Supported development of prototypes aimed at enhancing manufacturing efficiency, focusing on energy-efficient motor design and operational improvements.

- Developed a prototype motor, streamlining initial designs to increase functionality.
- Conducted testing resulting in notable energy savings and improved performance benchmarks.
- Documented standard operating procedures (SOPs), ensuring clarity and consistency across manufacturing applications.
- Facilitated weekly meetings to address project progression and immediate challenges effectively.
- Employed CAD software proficiently for component design, slickening production layouts.
- Crafted presentations showcasing are outcomes and insights, enabling informed future directives.

Manufacturing Systems Research Assistant

Academic Research 📅 September 2024 - May 2025 📍 Phoenix, AZ

Engaged in a lean manufacturing project, aiming to identify inefficiencies and streamline processes within manufacturing settings.

- Investigated existing operational flows, distinguishing inefficiencies ripe for corrective action.
- Assisted in creating training materials disseminating lean methodologies amongst staff members.
- Collected impactful data analyzing effectiveness post-implementation of proposed process adjustments.
- Initiated collaborative sessions overseeing research aims that sparked significant enhancements.
- Presented findings during a student conference, garnering commendations for logical clarity.
- Refined research methodologies through direct dialogue with supervisory faculty.

Manufacturing Process Developer

Capstone Project 📅 January 2026 - May 2026 📍 Phoenix, AZ

Led broad initiatives to optimize a local startup's assembly line functionality through targeted workflow developments.

- Analyzed workflows to tackle bottlenecks, subsequently proposing strategic solutions.
- Collaboration with supervisors ensured robust adherence to regulations regarding safety and quality.
- Implemented changes achieving marked improvements in assembly process timing.
- Formulated thorough documentation supporting ongoing employee training frameworks.
- Executed follow-up assessments validating newly implemented solutions significantly enhanced operational flow.
- Nurtured supportive teamwork encouraging stewardship throughout the project's life cycle.

LEADERSHIP & AWARDS

- Dean's List, Arizona State University, 2024-2026

CERTIFICATIONS

- Lean Manufacturing Certification 📅 2026
- Six Sigma Green Belt 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Association, Arizona State University, 2024-Present
- Volunteer, STEM Outreach Program, 2025-Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST