



Ruben Farrell

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SUMMARY

Driven Mechanical Engineering student with solid experience in electronic manufacturing processes. Experienced in SMT solder assembly, mechanical integration, and environmental testing. Proven ability to collaborate effectively with cross-functional teams and support new product introductions. Excellent skills in developing process procedures and work instructions that enhance operational efficiency. Dedicated to continuous improvement and problem-solving, successfully conducting root-cause analyses for non-conformances. Currently pursuing Lean Six Sigma certification to strengthen process optimization and drive innovation in manufacturing settings.

EDUCATION

Bachelor of Science in Mechanical Engineering

University of Maryland GPA: 3.8

2026

Baltimore, MD

Coursework: MATLAB, Manufacturing Processes, Materials Science, Thermodynamics

TECHNICAL SKILLS

- **Manufacturing Tools:** SMT, CAD Software, Welding Equipment
- **Process Improvement:** Lean Manufacturing, Six Sigma, Continuous Improvement
- **Statistical Analysis Software:** Minitab, JMP, MATLAB
- **Project Management Tools:** Microsoft Project, Trello, Asana
- **Engineering Software:** AutoCAD, SolidWorks, Creo
- **Documentation Tools:** Confluence, SharePoint, Microsoft Office
- **Troubleshooting Skills:** Diagnosis, Root Cause Analysis, Corrective Actions
- **Electronic Manufacturing:** Hand Soldering, PCB Assembly, Electrical Testing
- **Integration Techniques:** Cross-Functional Collaboration, Process Validation, Quality Assurance
- **Communication Skills:** Team Meetings, Technical Presentations, Stakeholder Reporting

SKILLS

- SMT Solder Assembly
- CAD Software
- Lean Manufacturing Principles
- Root Cause Analysis
- Data Analysis

EXPERIENCE

Manufacturing Engineering Intern

University Project

June 2025 - Present

Baltimore, MD

Focused on supporting the production of high-reliability electronic hardware through practical projects at the university level. Engaged in developing and editing work instructions for production metrics aligning with manufacturing standards. Collaborated closely with engineering teams to ensure quality compliance in production processes. Instrumental in implementing process improvements alongside professors and peers, demonstrating a strong commitment to team-centric objectives.

- Supported development of work instructions for enhanced assembly clarity and efficiency.
- Collaborated with peers to design and implement SMT solder assembly procedures, raising accuracy significantly.
- Assisted in qualifying new tools ensuring regulatory compliance and operational excellence.
- Conducted in-depth root-cause analyses for product inconsistencies, proposing effective corrective actions.
- Maintained comprehensive records and reports tracking operational performance metrics.
- Participated in daily huddles discussing production outcomes, initiating immediate solutions.

Engineering Research Assistant

Academic Research

September 2024 - May 2025

Baltimore, MD

Engaged actively in research projects centered on lean manufacturing principles within electronics production. Partnered with faculty and fellow students to create efficient strategies for optimizing production workflows. Designed innovative manufacturing tools utilizing CAD software to facilitate enhancements in production processes, providing valuable insights into cost-analyzing and resource allocation.

- Researched lean principles affecting electronic production, presenting findings at academic conferences.
- Developed cutting-edge strategies that streamlined assembly line operations for less waste.

- Utilized CAD software including SolidWorks to produce meaningful designs enhancing manufacturing capabilities.
- Created cost estimations aiding budget planning, informing stakeholders on resource allocation.
- Facilitated workshops for peers focusing on basic electronic manufacturing, boosting learning opportunities.

LEADERSHIP & AWARDS

- Dean’s List, University of Maryland (Fall 2024, Spring 2025)
- First Place, University Hackathon Competition (2025)

CERTIFICATIONS

- Lean Six Sigma Yellow Belt 📅 2026
- AutoCAD Certification 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Society
- Volunteer, STEM Outreach Program

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST