

Ella Martin

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SUMMARY

Early career manufacturing technician completing an Associate of Science in Mechatronics, with supervised lab experience building electromechanical medical device training modules. Practical work includes **robotic joints**, cable harnesses, control enclosures, **mechanical parts**, torque controlled fastening, multimeter testing, caliper checks, presses, ESD protection, contamination control, 6S, line clearance, and calibration status review. Academic projects applied controlled **work instructions**, engineering drawings, ISO 13485 concepts, FDA QSR concepts, **Good Documentation Practices**, electronic DHR entries, MES workflows, SAP fundamentals, material transactions, cycle counts, and WIP tracking. Careful documentation and steady troubleshooting supported safe escalation of nonconforming conditions. Ready for structured production work, flexible scheduling, and continued certification on designated medical device modules.

EDUCATION

Associate of Science in Mechatronics
San Jose City College GPA: 4.0

2027
San Jose, California

Coursework: Electromechanical Assembly, Medical Device Manufacturing, Robotics, Quality Systems, Manufacturing Documentation

TECHNICAL SKILLS

- **Assembly Tools:** Torque wrenches, screwdrivers, calipers
- **Electrical Testing:** Multimeters, continuity testing, functional testing
- **Production Systems:** MES, ERP, SAP
- **Quality Standards:** ISO 13485, FDA QSR, quality standards
- **Documentation:** Good Documentation Practices, electronic DHR, controlled forms
- **Workplace Controls:** ESD protection, contamination control, clean manufacturing
- **Material Control:** Raw materials, sub assemblies, WIP
- **Inventory Operations:** Material transactions, cycle counts, shortage reporting
- **Production Readiness:** Line clearance, calibration status, maintenance verification
- **Workstation Methods:** 6S, organized work areas, process clarification
- **Mechanical Equipment:** Presses, fasteners, mechanical parts
- **Robotic Systems:** Robotic joints, control modules, cable harnesses
- **Inspection Methods:** In process inspection, acceptance criteria, quality checks
- **Training Systems:** ComplianceWire, training records, module certification
- **Safety Practices:** Safety requirements, overtime readiness, weekend scheduling

SKILLS

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|--------------------------------|-------------------|--------------------------------|-------------------------|
| • Electro Mechanical Assembly | • Torque Wrenches | • Functional Testing | • ESD Protection |
| • Medical Device Manufacturing | • Calipers | • Good Documentation Practices | • Contamination Control |
| • Robotics | • Multimeters | • ISO 13485 | • 6S |
| • Cable Harnesses | • Presses | • FDA QSR | |

EXPERIENCE

Electromechanical Medical Device Assembly Lab Technician
Student Lab

January 2026 - Present
San Jose, California

Support supervised training builds for electromechanical medical device modules, following controlled work instructions, inspection criteria, safety practices, and documentation expectations. Work covers robotic joints, cable harnesses, control enclosures, verification tools, ESD controls, clean manufacturing, and electronic records.

- Built robotic joints and **cable harnesses** from controlled work instructions during supervised module assembly.
- Used **torque wrenches**, calipers, presses, and multimeters for functional and **mechanical verification**.
- Applied **ESD protection**, **clean manufacturing**, contamination control, and 6S during repeat laboratory builds.
- Recorded build, inspection, and test results in simulated electronic DHR records using GDP.
- Checked **calibration status** and line clearance before escalating out of tolerance readings.
- Completed repeat robotic joint builds and demonstrated module proficiency through functional checks.

Robotic Module Manufacturing Capstone Technician
Capstone Project

August 2025 - December 2025
San Jose, California

Completed supervised capstone manufacturing work for an electromechanical robotic module, using engineering drawings, assembly procedures, inspection planning, training inventory records, and structured issue escalation. Focus included cable routing, connectors, functional testing, quality records, and material control.

- Created a supervised robotic module build plan from engineering drawings and assembly procedures.
- Assembled cable routing, mechanical joints, connectors, and fasteners with torque controlled tools.
- Performed continuity and functional tests, then documented prototype results against acceptance criteria.
- Created an in process inspection checklist using **ISO 13485** and **FDA QSR** coursework.
- Logged **raw materials**, **sub assemblies**, and WIP in training ERP and SAP records.
- Investigated connector test failure through visual inspection and multimeter checks before escalation.

Regulated Manufacturing Systems Project Technician

January 2025 - May 2025

Course Project

San Jose, California

Completed a supervised production exercise covering line setup, material readiness, controlled documentation, quality verification, training MES records, SAP inventory comparisons, cycle counts, and escalation decisions. Work simulated a regulated medical device manufacturing environment.

- Completed simulated line setup with **material readiness**, documentation, and quality verification steps.
- Recorded routing and inspection status in training **MES**, then compared **SAP** inventory data.
- Performed raw material, sub assembly, and **WIP cycle counts** and documented discrepancies.
- Applied **Good Documentation Practices** to controlled forms through supervised peer review.
- Mapped a 6S workstation layout with ESD controls and calibrated measurement equipment.
- Reviewed quality holds and calibration status scenarios before selecting escalation paths.

PROJECTS

Robotic Module Manufacturing Capstone 📅 2025

Built and evaluated a supervised robotic module using engineering drawings, torque controlled assembly, continuity testing, inspection planning, and training inventory records. Project centered on clear documentation and safe issue escalation.

Regulated Manufacturing Systems Simulation 📅 2025

Modeled a medical device production line with MES records, SAP inventory comparisons, cycle counts, line clearance, material readiness, ESD controls, and quality hold decisions.

LEADERSHIP & AWARDS

- Dean’s List, San Jose City College, 2025
- Technical Education Achievement Scholarship, San Jose City College, 2026
- Capstone Documentation Excellence Recognition, 2025

CERTIFICATIONS

- Introduction to SAP Concepts for Manufacturing 📅 2026
- ESD and Electronics Assembly Fundamentals 📅 2026

PROFESSIONAL AFFILIATIONS

- Peer Mentor, Mechatronics Student Lab, 2026
- Member, Campus Robotics Project Group, 2025 to 2026
- Volunteer, College Manufacturing Lab Open House, 2025

LANGUAGES

- English (Native) • Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST