

Leonardo Velasquez

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SUMMARY

Early career manufacturing engineer with supervised internship, laboratory, and capstone experience supporting regulated medical device production, **process improvement**, **equipment troubleshooting**, and engineering project execution. Holds a Bachelor of Science in Mechanical Engineering with practical exposure to manufacturing data, statistical analysis, **root cause analysis**, Lean, Six Sigma, FDA, ISO, and OSHA requirements. Evaluated **process parameters**, investigated nonconforming output, documented technical findings, and translated production data into concise project updates for engineering and quality stakeholders. Applied structured problem solving to process variation, equipment reliability, throughput, downtime, waste, yield, utilization, and cost considerations. Communicates fluently in English and Spanish, supports collaborative implementation, and contributes effectively within fully onsite operations requiring flexible production schedules.

EDUCATION

Bachelor's Degree in Mechanical Engineering
University of Puerto Rico, Mayagüez GPA: 0
Coursework: Manufacturing systems, engineering statistics, process design, quality engineering, materials science

2026
Mayagüez, Puerto Rico

TECHNICAL SKILLS

- **Manufacturing Methods:** Lean, Six Sigma, process improvement
- **Statistical Analysis:** Descriptive statistics, process variation, data review
- **Root Cause Tools:** Root cause analysis, cause and effect, corrective action
- **Quality Systems:** FDA, ISO, nonconforming product
- **Safety Standards:** OSHA, site safety procedures, laboratory safety
- **Production Metrics:** Throughput, yield, downtime
- **Equipment Operations:** Machine monitoring, tooling, process parameters
- **Project Controls:** Milestones, task ownership, budget assumptions
- **Medical Manufacturing:** Medical devices, regulated production, process validation
- **Engineering Documentation:** Technical records, status reports, test records
- **Computer Applications:** Computer literacy, data organization, technical presentations
- **Communication Methods:** English, Spanish, stakeholder presentations

SKILLS

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|-----------------------------|--------------------------------|-----------------------|---------------------------|
| • Project planning | • Statistics | • Technical reporting | • Throughput improvement |
| • Process improvement | • Lean | • FDA compliance | • Yield improvement |
| • Equipment troubleshooting | • Six Sigma | • ISO standards | • Bilingual communication |
| • Root cause analysis | • Medical device manufacturing | • OSHA requirements | |

EXPERIENCE

Manufacturing Engineering Intern
Manufacturing Engineering Internship

January 2026 - August 2026
Mayagüez, Puerto Rico

Supported supervised medical device production improvement work across equipment behavior, process settings, quality observations, and regulated change evaluation. Coordinated technical records with manufacturing, Quality, and product development stakeholders while preparing clear updates for project reviews.

- Reviewed equipment behavior and process settings during supervised medical device production improvement work.
- Summarized recurring process variation using basic **statistics** and **root cause analysis** for project reviews.
- Documented **equipment troubleshooting** observations and verified corrective adjustments through controlled production checks.
- Compared **throughput**, **downtime**, waste, yield, and quality factors before process change recommendations.
- Coordinated traceable test records with Quality and product development stakeholders during revised process review.
- Applied Lean and **Six Sigma** concepts while considering FDA, ISO, OSHA, and site procedures.

Manufacturing Process Improvement Project Lead
Capstone Project

August 2025 - May 2026
Mayagüez, Puerto Rico

Led a supervised capstone team evaluating a simulated regulated manufacturing cell, balancing process performance, equipment utilization, schedule, budget assumptions, and business constraints. Presented bilingual findings that connected technical evidence with practical manufacturing decisions.

- Led a supervised team evaluating cycle variation, **low yield**, and **equipment utilization** in a simulated cell.
- Built milestones, task ownership, test activities, and budget assumptions for an academic engineering project.
- Compared baseline and adjusted operating parameters using repeated measurements and descriptive statistics.
- Applied cause and effect analysis to isolate likely contributors before proposing process changes.
- Evaluated throughput, downtime, **waste**, yield, and **standard cost** implications for improvement recommendations.
- Presented bilingual manufacturing findings in **English** and **Spanish** with clear conclusions and next steps.

Manufacturing Systems Research Assistant

January 2025 - July 2025

University Research Lab

Mayagüez, Puerto Rico

Supported faculty directed research on equipment reliability and process monitoring through repeatable benchtop manufacturing experiments. Prepared test configurations, reviewed machine data, investigated abnormal runs, and communicated findings through organized records and presentations.

- Prepared sensor and tooling configurations for repeatable equipment reliability experiments under faculty supervision.
- Recorded machine and process data, then checked datasets for completeness before statistical evaluation.
- Investigated abnormal runs through equipment inspection, parameter review, and **root cause analysis**.
- Compared **equipment utilization** and downtime patterns across controlled test scenarios for further study.
- Maintained technical records and followed laboratory safety practices aligned with **OSHA** concepts.
- Shared research results through concise **status reports** and presentations for faculty and peers.

PROJECTS

Regulated Manufacturing Cell Analysis 📅 2026

Evaluated a simulated medical device manufacturing cell through process measurements, statistical review, root cause analysis, and cost informed recommendations for improved yield and equipment utilization.

Equipment Reliability Study 📅 2025

Analyzed benchtop manufacturing system data, abnormal runs, equipment conditions, and downtime patterns while maintaining repeatable testing and organized technical documentation.

LEADERSHIP & AWARDS

- Engineering Capstone Excellence Recognition, University of Puerto Rico, 2026
- Dean's List, University of Puerto Rico, 2025
- Undergraduate Research Presentation Recognition, 2025

CERTIFICATIONS

- Lean Six Sigma Yellow Belt 📅 2026
- OSHA 10 Hour General Industry 📅 2025

PROFESSIONAL AFFILIATIONS

- Peer Mentor, Engineering Student Success Program, 2025 to 2026
- Student Project Coordinator, Manufacturing Systems Capstone Team, 2025 to 2026

LANGUAGES

- English (Native)
- Spanish (Native)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST