



Myles Agarwal

Asset Management Engineer Co Op

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SUMMARY

Industrial Engineering student with a 3.6 GPA and supervised project experience supporting **spare parts management**, inventory control, maintenance planning, and material flow in regulated manufacturing scenarios. Academic work includes analysis of more than 1,200 inventory records, identification of critical components, **duplicate materials**, obsolete stock, stockout exposure, **reorder points**, **safety stock**, and equipment based inventory needs. Applies Microsoft Excel, Power BI, SAP concepts, CMMS workflows, process mapping, 5S, visual management, and KPI development to improve storage organization and maintenance support. Research experience strengthened master data quality, equipment to spare relationships, consumption analysis, and controlled documentation. Continues pursuing a Bachelor of Science in Industrial Engineering through 2027 and remains enrolled during the co op term. Permanently authorized to work in the United States without sponsorship and available for full time on site work in Mayagüez.

EDUCATION

Bachelor of Science in Industrial Engineering

University of Puerto Rico at Mayagüez 🎓 GPA: 3.6 📅 2027 📍 Mayagüez, PR

Coursework: Inventory management, maintenance engineering, supply chain processes, quality systems, data analysis

TECHNICAL SKILLS

- **Inventory Management:** Inventory control, spare parts management, reorder points
- **Supply Chain Operations:** Material planning, procurement, receiving
- **Warehouse Operations:** Storage organization, replenishment, material flow
- **CMMS Platforms:** SAP PM, Maximo, CMMS workflows
- **Data Analysis Tools:** Microsoft Excel, Power BI, pivot tables
- **Inventory Analytics:** Consumption trends, stockouts, obsolescence
- **Lean Methods:** 5S, visual management, process improvement
- **Maintenance Planning:** Equipment reliability, maintenance history, criticality
- **Master Data Management:** Data cleansing, data standards, record validation
- **Quality Systems:** Controlled documentation, work instructions, process maps
- **Manufacturing Compliance:** EHS, safety requirements, quality requirements
- **Validation Practices:** Equipment qualification, validation concepts, maintenance activities

EXPERIENCE

Capstone Project, Spare Parts Inventory Optimization

University of Puerto Rico at Mayagüez 📅 August 2026 - Present 📍 Mayagüez, PR

Leads a supervised capstone focused on **spare parts inventory**, storage systems, maintenance support, and data analysis for a simulated regulated manufacturing operation. Applies engineering methods and reporting tools to improve inventory accuracy, material flow, technician access, and equipment reliability.

- Analyzed 1,200 inventory records using criticality, duplicate, obsolescence, and stockout screening methods
- Built Excel models for minimum levels, maximum levels, reorder points, safety stock, and consumption history
- Created Power BI dashboards tracking **inventory accuracy**, availability, **service levels**, trends, and aging
- Mapped procurement, receiving, storage, replenishment, and issue workflows to expose **material flow** constraints
- Redesigned laboratory storage using 5S, labeling, location coding, **visual management**, and retrieval testing

STRENGTHS

- ♥ **Inventory analysis**
Worked through more than 1,200 records to separate critical, duplicate, obsolete, and shortage exposed materials.
- 🔧 **Practical problem solving**
When storage congestion appeared in a simulation, mapped each handoff and proposed clearer access standards.
- 📊 **Data quality**
Cleaned maintenance records and reviewed missing fields, helping faculty reviewers trust later inventory findings.
- ⚙️ **Process improvement**
Applied 5S, labels, and visual controls in a storeroom study, making retrieval trials easier to follow.
- 👥 **Clear collaboration**
Presented technical findings to faculty and peers, connecting master data choices with maintenance continuity.

SKILLS

Inventory Management

Spare Parts Management

Inventory Control

Material Planning

Supply Chain Processes

CMMS Concepts

SAP PM Concepts Microsoft Excel

Power BI 5S Visual Management

Process Mapping

KPI Development Master Data

Equipment Reliability

LANGUAGES

English Native

Spanish Proficient

MY CAREER



● Capstone Project, Spare Parts Inventory Optimization at University of Puerto Rico at Mayagüez (2 Months)

● Research Assistant, Maintenance Asset Data at University Research Lab (6 Months)

● Course Project, Regulated Manufacturing Process Improvement at University of Puerto Rico at Mayagüez (4 Months)

- Prepared controlled reports with process maps, **work instructions**, data definitions, quality, and safety recommendations

Research Assistant, Maintenance Asset Data

University Research Lab 📅 January 2026 - July 2026 📍 Mayagüez, PR

Supported faculty research examining maintenance asset data quality, **equipment reliability**, spare parts relationships, and inventory policies. Cleaned records, reviewed simulated CMMS fields, documented data gaps, and translated findings into practical standards for maintenance planning and continuity.

- Standardized several hundred maintenance and spare parts records for supervised reliability research
- Structured equipment to spare relationships and reviewed simulated **CMMS** fields modeled on **SAP PM**
- Classified high impact spares using maintenance histories, lead times, consumption, and equipment criticality
- Used Excel pivot tables, lookups, charts, and summaries to examine **shortages** and obsolescence
- Drafted standard work for data entry and master data review, then tested instructions
- Presented findings linking **master data quality** and spare availability with maintenance planning continuity

Course Project, Regulated Manufacturing Process Improvement

University of Puerto Rico at Mayagüez 📅 August 2025 - December 2025 📍 Mayagüez, PR

Completed a supervised medical device manufacturing case study addressing maintenance material delays, storage congestion, spare parts identification, and documentation controls. Applied process analysis and lean methods to recommend practical improvements for material access, inventory visibility, and regulated operations.

- Evaluated maintenance material delays, storage congestion, and inconsistent spare parts identification
- Created **process maps** covering requests, material search, storeroom issue, **replenishment**, and supplier ordering
- Applied **5S** and visual management to a scaled **storage** simulation with location standards
- Built Excel KPI worksheets for accuracy, availability, service levels, consumption, and **space utilization**
- Added **equipment qualification**, validation, EHS, and documentation checkpoints to a future state process
- Delivered a technical memo explaining analysis methods, test results, limitations, and recommendations

PROJECTS

Critical Spare Parts Analysis 📅 2026

Analyzed equipment needs, consumption history, lead times, and criticality to recommend spare classifications, reorder points, minimum quantities, maximum quantities, and safety stock for maintenance support.

Storeroom Visual Management Study 📅 2025

Tested 5S, labeling, location coding, space utilization, and visual management methods in a laboratory storage simulation, improving material identification and technician retrieval access.

LEADERSHIP & AWARDS

- Dean's List, Spring 2026
- Engineering Academic Achievement Scholarship, 2025
- Industrial Engineering Student Project Showcase Finalist, 2026

CERTIFICATIONS

- Microsoft Learn Power BI Learning Path 📅 2026
- Lean 5S and Visual Management 📅 2026
- SAP S/4HANA Asset Management Introduction 📅 2026

PROFESSIONAL AFFILIATIONS

- Institute of Industrial and Systems Engineers Student Chapter, Project Team Member
- Engineering Peer Study Group, Volunteer Facilitator
- Campus Sustainability Service Project, Logistics Volunteer

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST