

EDUCATION

Louisiana State University (LSU), Baton Rouge, LA

January 2020 – May 2025**Bachelor of Engineering, Industrial**

IE GPA: 3.30

Bachelor of Arts, Photography

LSU GPA: 2.76

Related Coursework: Project Management, Supply Chain Logistics, Advanced Statistics, Manufacturing Processes, Engineering Economics, Engineering Graphics, Information Systems Engineering, Methods and System Engineering**EXPERIENCE****Advanced Manufacturing and Machining Facility, Baton Rouge, La.****July 2022 – Present****Student worker**

- Operate and maintain advanced manufacturing equipment, including 3D printers, mills, lathes, welders, and waterjet cutters.
- Design, prototype, and fabricate mechanical parts using CAD modeling and machining tools.
- Lead projects from concept to production, ensuring functionality and manufacturability.
- Improve shop efficiency by optimizing work order processes, workspace layout, and machine maintenance.
- Develop and implement 3D printing certifications, SOPs, and shop safety protocols.

Community Coffee – Manufacturing Plant., Port Allen, La.**January 2024 – Present****Continuous Improvement Engineer Intern**

- Lead initiatives in process optimization, safety, and standardization across manufacturing operations.
- Develop SOPs, job aids, and training materials to improve production efficiency and reduce errors.
- Conduct data analysis on material rates, scrap usage, and SAP inventory discrepancies to drive improvements.
- Perform time studies and process mapping to enhance workflow and eliminate bottlenecks.
- Collaborate with engineers, technicians, and leadership to implement lean manufacturing strategies.

SKILLS

- Technical: Microsoft Office Applications, SolidWorks, AutoCAD, Additive Manufacturing Software (Ultimaker, Chitubox), Adobe Suite Applications, Project Libre, Coding (Visual Studio, C#, Anaconda, Python), Simulation (JMP, Simio), ERP Systems (SAP), Hands-on Manufacturing & Prototyping
- Industrial & Process Improvement: Lean Manufacturing Principles, Root Cause Analysis, Process Mapping, Time Studies, Lean Six Sigma.
- Communication & Language: Public speaking and presentation skills (technical report-outs, meetings); intermediate proficiency in Spanish.

Projects**Process Optimization & Shop Improvements****July 2022 – Present**

LSU Advanced Manufacturing and Machining Facility, Baton Rouge, LA

- Streamlined work order and billing processes for better organization.
- Refurbished additive machinery and optimized workspace layout for efficiency.
- Designed and fabricated a rag dispenser and dust collector using SolidWorks, waterjet cutter, sheet metal break, and welding.
- Improved shop policies, SOPs, safety protocols, and air circulation for a safer work environment.
- Implemented and optimized 3D Print Certification to enhance training and workflow.

Standardization & Preventative Maintenance**January 2023 – Present**

Community Coffee – Manufacturing Plant., Port Allen, La

- Created and standardized preventative maintenance checklists to increase efficiency and reduce opportunities for errors.
- Improved documentation processes and task allocation, ensuring consistency in operator workflows.
- Drive continuous improvement by enhancing operator safety and operational efficiency.

Project MABS (Material Analysis and B.O.M. Studies)**August 2024 – Present**

Community Coffee – Manufacturing Plant., Port Allen, La

- Identified inefficiencies and errors in the Bill of Materials (BOM), enhancing material consumption accuracy and pinpointing root causes of inventory variances.
- Conducted time studies to analyze process inefficiencies and optimize workflow.
- Standardized inventory analysis using Excel, SAP, and hand measurement tools (rulers, scales, clickers).
- Enhanced inventory management by identifying discrepancies and implementing accuracy improvements.

ACTIVITIES

- **Honors:** IISE Six Sigma Green Belt Certification (2024), IISE Lean Green Belt Certification (2023), 5th National Collegiate Powerlifting 100+ kg (2023), Baker Hughes ASPIRE Award (2022),
- **Interests:** Design, Robotics, 3D Printing, Fabrication & Machining, Manufacturing & Processes, Themed Entertainment
- **Leadership & Memberships:** LSU Engineering Big Sibling Mentor, Geaux Transfer Mentor, Member of LSU chapters of IISE, CBWE, SWE, and NSBE