

James LaForge

New Orleans, Louisiana 70123 • (504) 400-0461
jlaforge13@gmail.com • <https://www.linkedin.com/in/jameslaforge>
<https://james92740.github.io/ProjectsofJames/>

Adaptable and highly motivated with strong computer proficiency, problem-solving abilities, and critical thinking skills. Demonstrated leadership through tutoring, sports, and various clubs. Seeking a challenging mechanical engineering role that offers both professional growth and personal satisfaction, where I can apply my skills, solve complex problems, and make meaningful contributions.

EDUCATION

Bachelor of Science in Mechanical Engineering
University of Louisiana at Lafayette

Graduation Date: December 2024
GPA 3.97

WORK EXPERIENCE

Mechanical Design Engineer

January 2025 – Present

Intralox, Harahan, Louisiana

- Solving complex design challenges: Engineering custom test equipment and data collection systems tailored to unique customer requirements.

Mechanical Engineering Intern

May 2024 – August 2024

Intralox, Harahan, Louisiana

- Designed for scalability: Created components that support large-scale manufacturing and introduced a new product that reduced package flyouts by 83%
- Engineered for performance: Improved automated conveyor systems to boost operational performance
- Enhanced automation: Improved system functionality for advanced sorting and merging capabilities

Production Intern

May 2022 – July 2022

Special Products and Mfg., Inc., Dallas, Texas

May 2023 – July 2023

- Assembly line streamlining: Led the onboarding of a new 3D printer assembly, optimized work instructions and floor layout, and trained operators, resulting in a 100% increase in production efficiency
- New Product Introduction: Assisted in transitioning products from design to production

PRIMARY SKILLS

SOLIDWORKS (CSWA Certification) • Microsoft Office Suite • Troubleshooting and Problem Solving • Teamwork
Design for manufacturability • Innovative and analytical thinking • Adaptability • Organization • Attention to detail

PROJECTS

- **RobotX Autonomous Boat:** Assembled hardware, integrated sensors, modified ROS code for remote and autonomous operation, troubleshooted electrical and programming issues, and designed custom 3D printed parts
- **Water Quality Monitoring Device:** Designed, coded, and built a device that measures and stores water quality data
- **Automated Chicken Coop Door:** Designed, coded, and built a fully automated chicken coop door system
- **Mystery Design:** Created a cost-effective device in a week that won a competition by satisfying unique constraints
- **Robotics Competition:** Engineered a winning robot with a Python microcontroller, meeting all competition criteria
- **Custom Composite Paddleboard:** Built a lightweight, durable paddleboard using composite materials
- **Composite Ping Pong Paddle:** Designed and constructed a custom carbon fiber paddle with 3D printed TPU grips

AWARDS AND CLUBS

President's List Honor Roll

Fall 2020 – Fall 2024

Magnolia Scholarship (>3.0 GPA)

Fall 2020 – Fall 2024

Secretary of The American Society of Mechanical Engineers

Fall 2022 – Spring 2023

Louisiana Engineering Society

Fall 2022 – Fall 2024

REFERENCES

Yasmeen Qudsi • Senior Instructor, University of Louisiana at Lafayette • yasmeen.qudsi@louisiana.edu, (337) 849-3078
Jacob Grand-Lienard • Plant Manager, Special Products and Mfg, Inc. • jacobgl@spmfg.com, (972) 800-5150