

Liam John Rocheleau

Mechanical Engineer

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SKILLS

Skilled in mechanical engineering with a strong foundation in design, analysis, and problem-solving. Proficient in CAD software (SolidWorks, AutoCAD, AGTEK), FEA, and CFD for system optimization. Experienced in inspections, troubleshooting, and ensuring compliance with safety and project standards. Knowledgeable in system development, prototyping, and manufacturing processes like CNC machining and 3D printing. Works well with teams, contractors, and clients to deliver innovative solutions. Strong in project management, technical documentation, and hands-on operations, with a focus on precision, efficiency, and safety.

EDUCATION

Clarkson University, Potsdam, New York — BS Mechanical Engineering

August 2020 – August 2024

Bellows Free Academy, Saint Albans, Vermont — High School

August 2016 – June 2020

CERTIFICATIONS

- Engineer-in-Training (EIT/EI), State of Vermont — passed the FE Exam in Mechanical Engineering
- OSHA 30-Hour Construction Safety
- HAZWOPER 40-Hour

EXPERIENCE

Project Engineer | Engineers Construction Inc., Williston, Vermont

June 2025 – present

- Serve as the onsite project engineer, verifying that construction is completed correctly and in accordance with specifications and design plans.
- Perform survey shots and field checks to support quality control and construction accuracy.
- Provide hands-on support to field crews and project teams wherever needed to keep work on schedule.
- Support project bidding efforts, partially managing ECI's global bid calendar and leading the weekly pre-bid meeting.
- Prepare and submit project bids using B2W software.
- Develop water bypass plans and traffic control plans for active construction sites.
- Run morning safety talks when onsite and lead the crew in completing Job Hazard Analysis (JHA) paperwork.

Field Engineer | Kiewit Corporation, Power Constructors, Houston, Texas

August 2024 – May 2025

- Conducted on-site inspections to ensure compliance with specifications, safety standards, and quality control.
- Installed, tested, and maintained equipment, troubleshooting issues to minimize downtime.
- Collaborated with teams to provide technical guidance and resolve challenges.
- Performed calibration, adjustments, and maintenance to optimize performance.
- Prepared technical reports summarizing milestones and recommendations.
- Used engineering tools to analyze data and validate system performance.
- Managed field teams to meet deadlines and provide on-site training. Oversaw project logistics, material procurement, and regulatory compliance.
- Applied problem-solving to adapt designs to site conditions and client needs.

Engineering Intern | Thermatool Corporation, East Haven, Connecticut

June 2023 – August 2023

- Used SolidWorks to create precise 3D models and assemblies aligned with project requirements.
- Contributed to R&D by designing prototypes for product improvement and testing.

- Collaborated with teams to analyze, refine, and enhance design concepts.
- Conducted research to inform design decisions and improve system efficiency.
- Prepared technical documentation to support project deliverables.
- Applied problem-solving skills to overcome design challenges with innovative solutions.

Social Media Advertising Intern | Allure Security, Waltham, Massachusetts

April 2020 – August 2020

- Created blog content to support brand messaging and drive audience engagement.
- Managed social media accounts, scheduled posts, and analyzed performance to optimize campaigns.
- Developed targeted social media ads to boost brand visibility.
- Conducted research on trends and competitors to improve campaigns.
- Collaborated with marketing and design teams to align initiatives with broader goals.
- Monitored performance and provided reports with insights for future strategies.

UNIVERSITY EXPERIENCE

Integrated Design

August 2023 – August 2024

- Designed and built a tower mount for a wind turbine.
- Drew and tested design concepts in SolidWorks.
- Used Statics, Fluid Mechanics, and other coursework to calculate and validate design iterations.

Aircraft Structure Design

August 2022 – December 2022

- Wrote a report on the F-15 Eagle's wing.
- Created a CAD model in SolidWorks.
- Wrote a MATLAB script to identify points of failure along the wing.

Introduction to Engineering

August 2021 – December 2021

- Designed a lunar soil sampler to be placed onto a lunar rover.
- Created a CAD model in SolidWorks.
- Researched and implemented market-available items into the design.

OTHER WORK EXPERIENCE

Maple Run Unified School District, Saint Albans, Vermont — Substitute Teacher, Summer Counselor, and American Red Cross-Certified Lifeguard

June 2020 – July 2022

Santini Catering, Saint Albans, Vermont — Server, Dishwasher

October 2017 – July 2020

ACTIVITIES

Clarkson Crew Team — President, Secretary, & Event Coordinator

August 2020 – May 2024

Zeta Nu Fraternity — Vice President & Secretary

April 2021 – May 2024

Zeta Nu Leadership Association — Secretary

June 2025 – present