Linus Kemper

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Education

MECHANICAL ENGINEERING | EXPECTED GRADUATION 2025 | CLARKSON UNIVERSITY **GPA 3.6**

- Minor in Materials Engineering, concentration in manufacturing engineering
- Awards: Dean's List 2021, 2022, 2023
- Relevant Courses: Rigid Body Dynamics, Fluid Dynamics, Thermodynamic Systems, CAD, Material Science, Geometric Dimensioning & Tolerancing

Experience

SPECIALTY SILICONE PRODUCTS | *Operations Intern* **JUN 2024-AUG 2024**

- Learned machine operating procedures for equipment such as liquid injection molding machines, rubber mills, and hydraulic presses. Created work instructions to comply with ISO 9001 standards.
- Analyzed machine schedule to better allocate operators to machines for improved efficiency
- Compared industrial schedule to output to identify which machines were falling behind
- Learned QT9 Quality Management Software training features and presented to company leadership
- Introduced company leadership to QT9 Quality Management Software training features for companywide implementation. Highlighted specific features with relevance to the company.
- Designed custom vacuum attachment to improve efficiency in removing scrap from press die

CLARKSON UNIVERSITY BAJA | *Ergonomics Team Member* **AUG 2024-PRESENT**

- Designing and creating seat and hood molds
- Designing body panels and graphics
- Fabricating carbon fiber components such as the seat, hood, and body panels
- Analyzed composite panels using ANSYS ACP

CLARKSON FORMULA ELECTRIC KNIGHTS | *Ergonomics Lead* **AUG 2021-PRESENT**

- Led design of electric racecar seat, steering wheel, and firewall for the Formula SAE Electric competition
- Created a SOLIDWORKS model of the seat based on the most comfortable driving position and the average size of the driver to be made into a mold
- Modeled the steering wheel plate and grips to be manufactured
- Used SOLIDWORKS sheet metal to design a firewall to separate cockpit from tractive system
- Fabricated carbon fiber body panels using wet layup method to shield driver and improve aerodynamics

GATOR UTV ELECTRIC CONVERSION PROJECT **AUG 2018-JUL 2021**

- Removed gas engine and welded plates to create mounting system for electric motor
- Assembled battery pack using repurposed Nissan Leaf battery modules
- Wired battery management system, motor controller and throttle to incorporate into Gator components
- Connected electric motor to original radiator tubing and installed temperature activated pump

Skills

- MATLAB
- SOLIDWORKS/AutoCAD design and analysis
- ANSYS
- Machining (lathes, mills, CNC mills)
- Welding