Linus Kemper

128 Shelter Lagoon Drive, Santa Cruz, CA, 95060
(831)-297-0289 | linus.kemper08@gmail.com | LinkedIn

Education

BACHELOR'S DEGREE MECHANICAL ENGINEERING | CLARKSON UNIVERSITY **GPA 3.65**

- Graduated 2025, minor in materials engineering, concentration in manufacturing engineering
- Awards: Dean's List 2021-2024, Presidential Scholar 2024

Experience

OPERATIONS INTERN | *Specialty Silicone Products* **JUN 2024-AUG 2024**

- Learned machine operating procedures for equipment such as liquid injection molding machines, rubber mills, and hydraulic presses
- Created and revised work instructions compliant 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 relevant to company operations to present to leadership
- Designed custom vacuum attachment to improve efficiency in removing scrap from press die

ERGONOMICS TEAM MEMBER | *Clarkson University Baja* **AUG 2024-MAY 2025**

- Designed and created seat and hood molds for carbon fiber layups
- Modeled body panels in SOLIDWORKS
- Analyzed carbon fiber layup geometries using ANSYS ACP
- Fabricated carbon fiber components such as seat, hood and body panels

ERGONOMICS LEAD | *Clarkson Formula Electric Knights* **AUG 2021-MAY 2025**

- 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 average driver size to be made into a mold
- Designed nosecone using SOLIDWORKS surface tools to be converted into a mold
- Modeled the steering wheel plate and grips for manufacturing
- Used SOLIDWORKS sheet metal tools to design a firewall to separate the cockpit from the tractive system
- Fabricated carbon fiber body panels using wet layup method to shield driver and improve aerodynamics

GATOR UTV ELECTRIC CONVERSION | *Personal Project* **AUG 2018-JUL 2021**

- Removed gas engine and fabricated mounting system for electric motor
- Assembled battery pack using repurposed Nissan Leaf battery modules
- Wired battery management system, motor controller and throttle
- Adapted existing cooling system to fit electric motor, installed temperature activated pump

Experience

- CAD: SOLIDWORKS, AutoCAD, Creo, Siemens NX
- FEA: SOLIDWORKS, ANSYS
- MATLAB
- Fabrication: Welding, machining (lathes, mills)