Kaushal Nandagiri

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Education

University of California, Riverside, CA **Sep 2024 - Jun 2026**
Master of Science in Mechanical Engineering

Florida Institute of Technology, Melbourne , FL **Aug 2020 - May 2024**
Bachelor of Science in Mechanical Engineering

Experience

Dell Technologies, Austin TX **June 2025 – Aug 2025**
Thermal/Reliability Engineering Intern

- Conducting performance testing of thermal interface materials for integration into direct liquid cooling solutions in high performance computing systems.
- Designing and executing mechanical tests on corrugated stainless-steel tubing to assess its potential as a replacement for EPDM rubber hoses.
- Operating thermal test vehicles and lab instrumentation to collect and analyze data on material behavior under operational thermal loads.
- Collaborating with cross-functional teams to support component selection, validation and design decisions based on test findings.

Blue Origin and Florida Institute of Technology, Melbourne, FL **Aug 2023 – April 2024**
Thermal Analyst

- Designing an educational lab apparatus to teach 100 students per semester how to perform heat transfer analysis on space technology, showcasing radiation, view factor, convection and conduction.
- Leading the heat transfer analysis (using MATLAB), using a thermal resistance network; to analytically prove that the requirement to maintain a surface temperature below 5C is being met.
- Performing heat transfer analysis (using MATLAB) for gyroid and diamond-based geometries.
- Simulated the appropriate thermal load acting on the lab apparatus (using MATLAB) to ensure our design meets.

Reliance Industries Limited, Kakinada, AP **May 2022 – July 2022**
Mechanical Engineering Intern

- Guided performance analysis on a heat exchanger used for the cooling of Mono-Ethylene Glycol, to decrease its cooling temperature from 46 C to the desired temperature of 37 C.
- Conducted an on-field trial and collected data from the heat exchanger such as temperature (using thermocouple) and flow of cooling medium (using cooling water flow meter) to showcase graphical relationships between the variables, (using MATLAB) and their effect on the efficiency of the heat exchanger.
- Conducted research on the new heat exchanger required, with an increase in area and cooling capacity from 140 ton of refrigeration to 170 ton of refrigeration.

Florida Institute of Technology, Melbourne, FL **Sep 2022 - Dec 2022**
SCUDEM, Math Modeling Competition

- Developed a mathematical model based off a real-life problem in the real world.
- Derived a differential equation (using MATLAB) that illustrated the rate of change of wariness in the behavior of any animal using the concept of Lotka-Volterra equations that analyze the dynamics of any predator and prey.
- Produced a graphical illustration that showcases the development of wariness in animals, with the change in time.
- Successfully submitted the modeled equation and won the Meritorious Award at the SCUDEM competition.

Extracurricular

- Indian Student Association – Vice President
- American Society of Mechanical Engineers - Secretary

Skills

Creo, Ansys Workbench, MATLAB, EES, Problem Solving, MS Office Suite, Leadership, Teamwork, Time Management, Verbal and Written Communication