

# Joel Bhattarai

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## EDUCATION

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### University of Michigan

*Bachelor of Science in Engineering in Mechanical Engineering*

Ann Arbor, MI

*April 2026*

## EXPERIENCE

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### Principal Investigator

*NASA L'SPACE Program - Proposal Writing and Evaluation Experience* *May 2025 – September 2025*

- \* Independently generated a new technology within the areas of Autonomy, Robotics, and AI that was selected for a full proposal by a NASA panel
- \* Led a group of ten interdisciplinary students to a full proposal and an NTR (New Technology Report)
- \* Facilitated advancement of proposed technology from concept to final proposal
- \* Served as the primary reviewer on a NASA proposal review board

### Lead Systems Engineer

*NASA L'SPACE Program - Mission Concept Academy*

*May 2024 – September 2024*

- \* Managed a team of engineering students to a successful PDR
- \* Designed a rover to accomplish practical missions on the surface of the moon
- \* Completed skills modules on Heat Transfer, Siemens NX, Teaming, Engineering Requirements, Project Management, Systems Topics, Risk Management

### Thermal Interface/Battery Pack Design Team Member

Dearborn, MI

*Formula SAE - Electric*

*September 2023 – January 2024*

- \* Collaborated with engineers in a team to develop an electric race car
- \* Designed cooling solutions for the battery pack, electric motors, etc.
- \* Designed the battery pack for optimal cooling

### Crew Member

Novi, MI

*Wendy's Restaurant*

*June 2022 – August 2022*

- \* Executed orders in a fast-paced environment
- \* Adapted to assist in multiple roles as needed
- \* Conducted kitchen tasks such as cooking, cleaning, etc.
- \* Completed safety training in order to utilize different tools and machines

## SKILLS

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**Software:** SolidWorks, Siemens NX, HyperMesh, HyperWorks, OptiStruct, ANSYS, C/C++, MATLAB, OpenFrameworks, LaTeX

**Languages:** English, French, Nepali

**Miscellaneous:** Metalworking, Machining, mill and lathe, Arduino

## COURSES

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### Relevant Coursework

- \* MECHENG 240: Introduction to Dynamics and Vibrations
- \* MECHENG 305: Introduction to Finite Elements in Mechanical Engineering
- \* MECHENG 335: Heat Transfer
- \* EECS 314: Electric Circuits, Systems, and Appliances
- \* MECHENG 461: Automatic Control

US Citizen