

Joel Bhattarai

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Dear Hiring Manager,

I am a senior student at the University of Michigan studying Mechanical Engineering. I have always had a passion for learning new tools and software, with particular interest in technology and optimizing designs.

I have supplemented my learning through two of NASA's workforce acceleration programs. In the summer of 2024, I participated in NASA's Mission Concept Academy, serving as the Lead Systems Engineer, leading a group of engineering students while working alongside a Programmatic and Science team, to design a lunar rover mission. In the following year, I proposed a new technology concept that was selected for a full proposal by a board of NASA engineers. As Principal Investigator for this new technology, I led my team to a successful proposal, and independently filed a New Technology Report with NASA. My proposed technology fell under the category of Robotics, Autonomy, and AI to fulfill one of NASA's civil space shortfalls.

Looking forward, I am interested in a role involving Robotics, Controls, Mechanical Designing, or Manufacturing. My experience with NASA was primarily design, involving technical writing, requirements and specifications, as well as CAD engineering. In my coursework and personal projects, I have focused largely on Controls, designing a stabilized inverted pendulum, and linkage system.

Best regards,

Joel Bhattarai.