BHUVIKA REDDY KOMAREDDY

Email: bkomared@purdue.edu Phone number: +1 (508) 431-5040

Education

Purdue University — West Lafayette, IN

Bachelor of Science in Mechanical Engineering GPA: 3.5 — August 2024 – May 2028

Skills

Programming: MATLAB, Python, C, LaTeX

Software: SolidWorks, NX Siemens, Microsoft Office Suite

Fabrication: CNC mill, manual mill, horizontal bandsaw

Work Experience

Purdue Dining & Culinary — West Lafayette, IN

Student Associate — January 2025 - Present

- Demonstrated communication skills and patience in a fast-paced environment
- Served 200+ customers weekly, ensuring satisfaction in a high-volume dining hall, while building strong teamwork and communication skills.

Purdue Undergraduate Teaching Assistant — West Lafayette, IN

Physics 17200: Modern Mechanics Teaching Assistant — September 2025 - Present

- Supported lab sessions by demonstrating experiments, ensuring safety protocols, and guiding students through data analysis.
- Graded assignments, quizzes, and lab reports with attention to accuracy, fairness, and constructive feedback.

Project Experience

Vertically Integrated Projects (VIP) — West Lafayette, IN

VIP Ambassador — March 2025 – Present

- Represented the VIP Program, promoting research and design opportunities by tabling at campus events.

Lunabotics Excavation Sub Team Member — August 2024 – May 2028

- Competed to build an autonomous lunar robot to meet NASA design requirements
- Machined bucket components with CNC mill, manual mill, and horizontal bandsaw at Bechtel Innovation and Design Center,
- Received the Caterpillar Autonomy Award for the autonomous robot.

ENGR 13300 — August 2024-December 2024

- Built Python applications to detect pixel-level differences in images, implement cryptographic ciphers (Caesar, XOR, Vigenère), and encode hidden binary messages using LSB steganography.