

# Seth E. Honnigford

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Recent graduate in Mechanical Engineering starting a master's program in the fall. Interests in robotics, control theory, additive manufacturing, and bio-inspired engineering.

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## Education:

B.S. in Mechanical Engineering (May 2024)  
Purdue University, West Lafayette, IN (GPA 3.75/4.00)

M.S. in Mechanical Engineering (May 2026)  
Purdue University, West Lafayette, IN (GPA N/A)

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## Skills and Proficiencies:

- Foundational knowledge of C#, Python, MATLAB, EES, and Microsoft Excel
  - Basic knowledge of Siemens NX and Solidworks
  - Great communication and interpersonal skills
  - Lots of experience with FDM 3D printing, some experience with SLA
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## Experience:

### Research Assistant at UIUC (Summer 2021)

- Assisted two research groups throughout the summer at the University of Illinois Urbana-Champaign
- Worked on image capturing with a thermal camera, tried streaking light sources through a linear variable filter to see if this method of capturing images would be viable for short exposure experiments
- Designed and tested two designs of a repeatable launcher used to consistently test grasshopper inspired gliders

### Intern at Advanced Power Technologies (Summer 2022)

- Helped assemble electromechanical cabinets used for power generation and distribution
- Gained lots of experience working hands on and getting familiar with common tools
- Learned about split-phase and three-phase power generation and the reasons for its common use

### Student Employee at Construction Engineering Research Laboratory (Summer 2023 - Present)

- Worked with the Army Corp of Engineers to develop software designed to help optimally maintain and replace buildings
  - Continued to do remote work throughout the academic year
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## Extracurriculars:

### Purdue Lunabotics (Fall 2020 – Spring 2021)

- A competition put on by NASA to design and build an autonomous robot capable of mining of the moon
- Designed many parts in CAD, mainly Solidworks and some Fusion 360
- Discovered improvements or alternative methods to the excavation that the team has currently

### Purdue Quiz Bowl Team (Fall 2020 – Present)

- Competes in multiple academic competitions throughout the semester, like a team-oriented jeopardy

### Member of Pi Tau Sigma (Spring 2024 – Present)

- Mechanical engineering honors society, help run tutoring sessions and participate in service opportunities
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## Projects:

### Discord Bot (Fall 2020)

- Developed a discord bot that uses a web scraping package to get text and read out trivia questions from a database of existing questions
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## Awards and Honors:

- Dean's List (Fall 2020-Spring 2024)