

Timothy Parisi

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OBJECTIVE

Dedicated and collaborative Notre Dame engineering student seeking an opportunity to be part of a team focused on solving problems through programming. Able to grasp new concepts quickly. Strong communicator.

EDUCATION

University of Notre Dame | South Bend, IN

Graduation: May 2026

Bachelor of Science

Cumulative GPA: 3.9

Major: Computer Science [School of Engineering]

Minor: Engineering Corporate Practice

TECHNICAL SKILLS

- Proficient in programming (Java, Python, C, C++, MATLAB, HTML + CSS, Git, Bash/Shell Scripting)
- Proficient in Linux, SolidWorks, Unity, Microsoft Excel

EXPERIENCE

Robotic Football Club | South Bend, IN

September 2022 - Present

Club Treasurer / Head of Code Team / Website Commissioner

- Program and develop the club's website using JavaScript, HTML, and PHP that is used to remotely configure and troubleshoot robots, as well as advertising new events and providing ways to contact club leadership
- Program Raspberry Pi's with Python and shell scripting to interface with a Bluetooth controller, motors, and sensors
- Develop throwing and vision capabilities for a robot to perform the role of a quarterback
- Lead a team of developers to write programs to develop new robots and improve existing ones
- Compete annually against other college programs
- Organize club funding (Microsoft Excel, Slack) and acquire needed equipment for the club

Planet Bravo Techno-Tainment Camp | Eagle Rock, CA

June 2023 – August 2023, June 2024 – August 2024

Instructor

- Taught middle school students different computer programs such as Unity
- Collaborated with a team of counselors to enhance learning environment and provide mentorship

RELEVANT COURSEWORK

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|-----------------------|------------------------------------|--------------------------|
| • Systems Programming | • Introduction to Embedded Systems | • Computer Architecture* |
| • Data Structures | | • Theory of Computing* |
| • Logic Design | • Introduction to AI* | • Programming Paradigms* |

* Currently enrolled Fall 2024 (First list of CS/Engineering courses available upon request)

PROJECTS

Controller Refinement Project | South Bend, IN

January - March 2024

- Added functionality to Bluetooth controllers that allows them to dynamically adjust their robots' handling
- Programmed robots to ignore inputs under a certain magnitude, fixing an issue with the robot's movement
- Created a program that changes the LED lights on PlayStation controllers when programs are running correctly

Data Sorting Project | South Bend, IN

March 2023 - May 2023

- Collaborated with a partner to create a program using MATLAB that organized a large batch of data into digestible charts and graphs
- Learned how to write a program that can interact with programs written by others

Embedded System Project | South Bend, IN

March 2023 - May 2023

- Designed an electronic circuit that replicated the sensors that would be useful in an automobile
- Used an Arduino with multiple sensors and actuators to interface with the outside world
- Wrote a program that allowed the system to react to the inputs it received