

# 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: 3.90*

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

- |                       |                                    |                          |
|-----------------------|------------------------------------|--------------------------|
| • 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

**Website Downloading Project** | South Bend, IN

February 2024 - March 2024

- Developed a Python program to download different pieces of data from websites
- Used the regex and requests libraries to filter through websites for media files and download them
- Took advantage of parallelism and multi-core processing to speed up download times

**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