

# Garrett Phillips

606 Evergreen St., West Lafayette, IN, 47906

+1 (763) 913-1176

[gwphilli@purdue.edu](mailto:gwphilli@purdue.edu)

[in/garrett-w-phillips](https://in.garrett-w-phillips)

## PERSONAL STATEMENT

Utilize leadership, interpersonal, and communication skills to gain valuable technical and professional work experience through software-oriented, problem-solving opportunities, while remaining committed to continuous learning and personal growth.

## EDUCATION

**Purdue University, West Lafayette, IN**

**Expected Graduation – December 2024**

- **GPA: 3.80** - Major GPA: 3.92
- Senior pursuing **Bachelor of Science in Computer Engineering**.
- Achieved Semester Honors and Dean's List in 4 consecutive semesters.

## WORK EXPERIENCE & LEADERSHIP

**Electrical and Computer Engineering Intern**

**Delta ModTech, Ramsey, MN**

**May 2022 – August 2022**

- Assembled mechanical and electrical components of a highly complex, \$1,000,000 laser die-cutting system per customer requirements through effective communication and collaboration with engineers, technicians, and professional writing personnel.
- Tested functionality of product through PLC programming and troubleshoot unexpected results to achieve a 99% functionality rating.
- Integrated a prototype sub-assembly, including creation and documentation of electrical schematics, into an established laser die-cutting system to decrease the error margin of the laser head during operation at high material speeds.

**Peer Success Coach**

**Purdue University Academic Success Center, West Lafayette, IN**

**August 2023 – Present**

- Mentor Purdue students as they navigate college and learn to succeed academically, personally, socially, and professionally.
- Assist students with time management skills, exploring career options, and connecting with campus resources and academic advisors.

**Undergraduate Teaching Assistant - ECE 20875**

**Purdue University Elmore Family School of ECE, West Lafayette, IN**

**August 2023 – Present**

- Support students in creating and optimizing problem-solving approaches to real-world data science issues through the utilization of python.
- Provide individual support to students during scheduled office hours while also leading group discussions and demonstrations.

**Soccer Referee**

**Minnesota Youth Soccer Association, Minneapolis, MN**

**May 2015 – August 2021**

- Refereed recreational, competitive, and select soccer clubs in the Minneapolis district of male and female athletes, ages 8-19.
- Enforced rules, structure, and order in high-stress situations and maintained professionalism when engaging with coaches and players.

## COURSEWORK

**ECE 39595 - Object-Oriented Programming with C++**

**Fall 2023**

Distinct applications of **classes, inheritance, polymorphism, memory allocation, exception handling, object construction and destruction**, and the Standard Template Library (STL) to create distinct solutions for real-world problems.

**ECE 36800 - Data Structures and Algorithms in C**

**Spring 2023**

Unique implementations of **trees, stacks, graphs, linked-lists, sorting and hashing algorithms**, as well as various other structures and algorithms to solve complex, time-intense problems.

**ECE 20875 - Python for Data Science**

**Spring 2023**

Researched built in Python functions and imports to explore optimized solutions to problems using Natural Language Processing (NLP), K-Nearest Neighbor (KNN), Multilayer Perceptron neural networks (MLP), Matplotlib, NumPy, and Scikit-learn.

## PERSONAL PROJECTS

**Portfolio Website – [garrettwphillips.com](https://garrettwphillips.com)**

**May 2023**

- Developed my personal portfolio which provides an overview of my passion, educational achievements, and extracurricular involvement.
- Static website independently developed using **HTML, CSS, and JavaScript**; hosted on **GitHub Pages** with unique domain name.

**Raspberry Pi Wi-Fi Proxy Filter**

**July 2023**

- Configured a Raspberry Pi Zero W to wirelessly connect to any Wi-Fi router and function as a network wide ad-block across all devices, enhancing network speed and optimizing data consumption.

## TECHNICAL SKILLS

C/C++, Python, OOP, Django Framework, Git, Large Data Analysis, HTML/CSS, SQLite, Excel, Visual Studio, Verilog, MATLAB