Garrett Phillips

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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: 3.78** - Major GPA: 3.83
- Senior pursing **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 troubleshot 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   **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