

Joseph W. Cunningham

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Objective

I am a Computer Engineering student at the Georgia Institute of Technology. After cofounding LJ Mobile Car Care, I used what I learned at the University of North Georgia to create an SQL database to aid operations. At Georgia Tech, I am working to establish my engineering skills, applying them during research. As part of the Agile Communications team, I do work in device localization methods using Wi-Fi signals. I am seeking an internship in automation or hardware integration starting January 2025.

Education

Georgia Institute of Technology | Atlanta, GA

Bachelor of Science in Computer Engineering, GPA 3.14

January 2024 – Present

Expected Graduation: May 2026

University of North Georgia | Dahlonega, GA

Transfer with 73 Credit Hours, GPA 3.58

August 2022 – December 2023

Skills

Programming: Java, Python (novice), SQL, Arduino IDE

Hardware: Arduino, Oscilloscope

Software: Microsoft Office (Excel, PowerPoint, Word)

Communication: Social media, customer service, incident reports, marketing

Languages: English, Chinese (Receptive)

Experience

Agile Communications | Atlanta, GA

August 2024 – Present

Hardware Team Member

- Worked on the hardware team for a Georgia Tech Vertically Integrated Project to help solve a device localization problem
- Analyzed and adjusted hardware to cut out interference and obtain an accurate location of a Wi-Fi device
- Followed a research paper to understand and communicate the hardware aspects of an Air Force Research Laboratory challenge
- Delivered technical presentations explaining Electrical Engineering concepts like phase-locked loops and Wi-Fi packets

LJ Mobile Car Care | Johns Creek, GA

February 2023 – Present

Cofounder

- Designed a database using SQL to keep track of past cleans, promoting efficiency and customer loyalty
- Cleaned interior and exterior of cars with premium products and professional-level methods like extracting, steaming, and waxing
- Posted on NextDoor and responded to review to keep up a presence on social media and show gratitude to customers

Georgia Express FC | Johns Creek, GA

August 2014 – Present

Grassroots Referee

- Worked with a team to officiate over 500 matches at a high level of competitive soccer (SCCL, Select, Adult).
- Made decisions using critical thinking to evaluate the details of a situation while under pressure.
- Communicated with coaching staff when problems arose before, during, and after the game

P.F. Chang's | Alpharetta, GA

May 2024 – August 2024

Service Assistant

- Prepared over 500 takeout orders, ensuring quality and efficiency with each ticket
- Communicated issues with kitchen staff, managers, and other employees to ensure customers receive great service each visit
- Brought dirty dishes back to be cleaned and reset tables so that more customers could be served quickly

Relevant Coursework

Circuit Analysis: DC and AC circuit theory, series and parallel circuit design and operations, mathematical representations of RLC circuits, Node and Mesh Analysis

Digital System Design: Simplifying Boolean expressions using DeMorgan's Theorem and Karnaugh Maps, visualizing logic circuits and how inputs affect outputs, analyzing a datapath using register files and three bus architecture

Databases: Utilizing SQL queries to edit and create databases, project design process for servicing a simulated bank's database

Modern Physics Lab: Use oscilloscopes to visualize data, design low voltage circuits on a breadboard, program an Arduino