

# Cole A. McGinnis

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## Objective

Computer Engineering major with strong computer science, software and hardware skills who is ambitious to earn experience in the field by obtaining a Software Engineering internship for the summer of 2023.

## Education

**Georgia Institute of Technology | Atlanta, GA**

Bachelor of Science in Electrical Engineering, GPA 3.7

*July 2021 – Present*

Expected Graduation, May 2025

## Skills

**Programming:** Python (Advanced), JavaScript (Intermediate), HTML (Intermediate), CSS (Intermediate), SQL (Advanced), PHP, and C

**Professional Organizations:** GT Motorsports, IEEE (The Institute of Electrical and Electronics Engineers) Chapter Member

**Software:** SOLIDWORKS (Intermediate), ArchiCAD (1st place CAD Architecture TSA State Convention), Drone Video, Video Editing (Intermediate), Pandas, MATLAB (Beginner), Tableau

**Hardware:** Engine Control Unit, Shift Light Module, Power Distribution Module

**Communication:** Leadership, Teamwork, Presentations, Customer Service

## Experience

**Verizon | Alpharetta, GA | June 2022 – August 2022**

**Network Engineering Intern**

- Automated a comparison between two databases with over 3 million data points, saving 250 hours/week of manual labor
- Utilized Python and SQL to automate primary project and uploaded comparison output to a Tableau dashboard
- Analyzed dB predictions and created radio frequency design sheets for 2 cell towers in Georgia

**Chili's | Johns Creek, GA | April 2021 – August 2021**

**To-Go Specialist**

- Placed, assembled, and delivered curbside, in-store, and Door Dash to-go orders totaling \$100's - \$1,000s/sales per shift
- Ranked #2 in customer surveys (out of 10 to-go workers) due to my fast service and hospitality
- Obtained a "guest with a problem" only 8% of the time a customer submitted a review (well below Chili's standard of 25%)

## Projects

**Electrical Leader | Atlanta Georgia | August 2021 – Present**

**Georgia Tech Motorsports**

- Leading a team of electrical and computer engineers to design and manufacture an electrical system for a formula motorsports car
- Designed (SOLIDWORKS Electrical) and constructed the complete electrical wiring harness for our 2023 FSAE car. The harness connects 30+ sensors to the ECU and is robust and reliable.
- Completed installations and programming of a new Shift Light Module utilizing the CAN Bus wiring from the Engine Control Unit and utilized software to create light patterns based on the RPM of the car

**Website/Head Developer | Suwanee Georgia | Summer 2021**

**WhichIsMoreExpensive.com**

- Designed, coded, tested, and published an interactive game website utilizing HTML, CSS, JavaScript, SQL, and PHP.
- The website includes backend data storage, a leaderboard, and modern CSS design elements.
- This game is designed to test player knowledge on pricing by comparing the prices of the world's most expensive products.

## Relevant Coursework

**Math:** Differential Equations, Linear Algebra, Multivariable Calculus, Calculus 1 & 2

**Electrical Engineering:** Digital System Design, Signal Processing, Digital Design Lab, Circuit Analysis

**Computer Science:** Python, MATLAB, Programming for Hardware/Software Systems (C language)

**Science:** Chemistry, Physics 1, Physics 2