

Christopher McGalliard

cpmcgalliard@gmail.com • 913-944-2506 • Overland Park, KS

EDUCATION

Purdue University

Bachelor of Science – Computer Science

John Martinson Honors College

West Lafayette, Indiana

Class of 2025

GPA: 4.0

Relevant Technical Experience

Java | Python | Linux | C (Embedded) | Git | STM 32 L4 | 3D Printing | AGILE | MATLAB | Laser Cutting

EXPERIENCE

Student Ambassador – Purdue College of Science

Undergraduate Teaching Assistant for Spring 2023 (Java OOP Course CS 180)

Purdue Formula SAE Electric Racing Team

Electronics Team

West Lafayette, Indiana

August 2022 - Present

- Project Lead: Data Analytics
 - Working with Battery and Controls teams to automate parsing of track data for real-time analysis
 - Producing MATLAB graphs for new insights into vehicle heat generation and battery cell health
- Project Lead: Implementation of a GNSS microchip for the 2023 racecar
 - Wrote GPS drivers that utilized SPI and USART over DMA on an STM microcontroller
 - Configured the device to receive position data periodically from multiple satellites
 - Maintained position data for the implementation of an odometer
 - Combined GPS velocity with other captured data to improve net ground speed
- Project Lead: CAN Stale Checking
 - Improved stale checking algorithm for CAN messages
 - Performed testing to validate the priority and reception of messages

BacklotCars

Marketing Associate Intern (Full Time – Paid)

Kansas City, MO

May - August 2021

- Designed and implemented customer milestone marketing campaigns
- Won internal hackathon “Code Velocity” with a product upgrade regarding used vehicle sales
- Researched and applied social media strategies including SEO optimization
- Received regular mentorship and exposure to various departments from C-level executives

C2FO – Young Entrepreneurs Program – 2021 Cohort

YEPKC Scholar

Leawood, KS

May - August 2021

- Graduated highly selective program based in Kansas City, MO and Columbus, OH
- Participated in seventeen masterclass sessions with politicians, startup founders, and other executives
- Worked with cohort to design an entrepreneurship mentoring program for local students

PROJECTS

Exo-Glove and Robot Arm

Overland Park, KS

May - August 2022

- Utilized open-source software and hardware to build a 3D printed glove and arm prototype
- Configured and installed HC-05 Bluetooth modules, stepper motors, 3-Axis motion sensors, and flex sensors

Service

- Regular guest speaker for high school computer science classes
- Volunteer tutor for Computer Science, Math, and Physics
- Volunteer at non-profit used clothing store