

# Cory Brynds

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## EDUCATION

### University of Central Florida

Aug 2021 - May 2025

Computer Engineering (BSCpE) | Burnett Honors Scholar

GPA: **4.000/4.000**

- **Relevant Coursework:** Intro to Programming with C, Object-Oriented Programming, Computer Science I
- **Honors and Awards:** President's Honor Roll (2022), National Merit Scholar (2021)

## SKILLS

**Languages:** C, C++, Python, Java, JavaScript, HTML, CSS

**Software:** Eagle, MATLAB, Fusion360, Solidworks (Certified Associate), VSCode, Google Workspace, MS Office

**Hardware:** SMD PCB Manufacturing, 3D Printing, Laser Cutting, Soldering, MCUs (Arduino, ESP32, etc)

## EXPERIENCE

### Limbitless Solutions, Inc. (<https://limbitless-solutions.org>)

Orlando, FL

Electrical Engineering Intern

Jan 2022 - present

- Manufactured electromyography (EMG) sensor boards using a pick-and-place machine and IC heater
- Modified electronics schematics to include new SMDs and rerouted signal traces in Autodesk Eagle
- Designed enclosures for the company's EMG-based video game controllers on Autodesk Fusion360
- Prototyped and laser-cut STEM kits for Limbitless's high school outreach program

### Institute of Electrical and Electronics Engineers (IEEE UCF)

Orlando, FL

Workshop Director

May 2022 - present

- Planned 8 technical workshops for the fall 2022 and spring 2023 semesters
- Researched, prototyped, and prepared over 300 total workshop kits throughout the fall semester
- Taught over 100 students technical skills including soldering, breadboarding, and embedded programming

Marketing Committee

Sept 2022 - present

- Created informational flyers to distribute to prospective members of the organization
- Captured footage of technical workshops and other events for IEEE's social media

### Burnett Honors College

Orlando, FL

Orientation Ambassador

Apr 2022 - Aug 2022

- Advised 20-30 incoming honors students in scheduling their electrical and computer engineering courses

Academic Affairs Committee

Sept 2021 - May 2022

- Organized and ran academic and professionalism-themed events throughout the year for honors students
- Hosted resume workshop and invited students with past internship experience to speak to underclassmen

## PROJECTS

### Computer Mouse Workshop

Aug 2022 - Oct 2022

- Created an MCU-based computer mouse using the Arduino Pro Micro's built-in USB communication protocol
- Prepared a step-by-step guide explaining how to build the circuit and program the computer mouse
- Taught 50+ students how to build the mouse and create custom computer macros using buttons and joysticks

### Audio Spectrum Visualizer

July 2022 - Oct 2022

- Sampled audio data from a MAX4466 audio amplifier via the I2S protocol on an ESP32 microcontroller
- Processed analog signal using a fast-fourier transform (FFT) library to obtain a 16-band frequency spectrum
- Programmed the ESP32 to display the frequency spectrum on an RGB LED strip in real time

### Arduino Code for Good Challenge

Sept 2020 - Oct 2020

- Created a device to survey for COVID-19 symptoms and upload results to a local file-based text log
- Programmed the UI for the resistive touchscreen in Arduino and the automated text log in Java
- Placed top five in the competition, hosted by Arduino and Pitsco Education, on a national level