

# ETHAN LOWE

## PROGRAMMER

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### GENERAL INFO

Self-motivated and innovative engineer with a strong foundation in electrical circuits, programming, AI, PLCs, and HMIs.

### SKILLS

Python, C, C++, TensorFlow, Pytorch, Object-Oriented-Programming, Electrical Hardware, PLC Programming, HMIs, Mobile App Development, JavaScript, AWS

### CONTACT INFO

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Website: <https://github.com/ehlowe>

### PERSONAL PROJECTS

- Made a website which automatically makes stream recaps for a popular live streamer and allows the user to search for when something happened in the stream.
- Made an interactive talking skeleton head that turned to look at and talk with trick or treaters in 2023
- Built AI vision based 'laser tag' demo which uses image segmentation and classification for registering hits.
- Programed personal tool to query my google drive's documents by a description of what I want using vector embeddings

### WORK HISTORY

#### Electrical Engineering Co-op

Bridgestone Americas, Trenton, SC

2022-05 - 2022-12

- Developed an algorithm for 40 tire carts to detect green tires and monitor pressure, leading to the correction of out-of-tolerance pressures and saving over \$300,000 per year in scrapped tires.
- Wrote a python program to extract energy data from motor drives which saved \$100,000 of electricity per year
- Established the feasibility of an AI vision system to detect whether a tire curing assembly is locked before machine activation

#### AI Engineering Contractor

Armada IQ, Charlotte, NC

2023-11 - 2024-3

- Led research for a xtechsearch grant proposal on an AI powered therapist bot for the army.
- Led development of the backend and AI chatbot for a cognitive behavioral therapy mobile app.
- Made demo for analyzing soccer matches with computer vision

#### Backend Contractor

Linkt, Austin, TX

2024-4 - 2024-6

- Developed a FastAPI server which made AI generated etsy listing information (title, tags, description, alt-text) and guided users with a chatbot

### EDUCATION

#### Clemson University

2020-06 - 2023-05 Bachelor of Science: Computer Engineering (Incomplete)

- GPA: 3.5, SC Life Scholarship Recipient
- Member of IEEE-HKN