

Andrew Cali

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EDUCATION

PURDUE UNIVERSITY, West Lafayette, IN

May 2025

- BS Computer Engineering

Graduation:

GPA: 3.70

OBJECTIVE

Seeking a position in computer hardware/software development utilizing my skills and education.

SKILLS

PROGRAMMING AND SOFTWARE

- C, Verilog, MATLAB, LTSPICE, Python, HTML, CSS
- Prospective skills: OOP, Microprocessors, Computer Architecture

COURSEWORK

- Data Structures and Algorithms, Microprocessor Systems, Object-Oriented Programming, Signals and Systems
- Electrical Engineering Fundamentals II, Digital Design, Python for Data Science

PROJECTS

DIGITAL DESIGN DRUM MACHINE

Mar. 2023

- Programmed FPGA board to create a drum machine written in Verilog
- Uses different sounds and tempo function to generate a beat pattern

TILING SOLUTION

Sep. 2022

- Program written in C that generates a tiling solution based on an incomplete tiling pattern
- Tile structures like Tetris are auto generated and fill in gaps left from the problem set

MARATHON TIMING SYSTEM

Jun. 2023

- Programmed Raspberry pi to time and track runners in a race
- Uses GUI and motion sensor to record and display finishing times

WORK EXPERIENCE

Sun and Ski Sports, Sales Associate

May 2023- Aug. 2023

- Skilled at quickly adapting to changes and learning new things effectively in the retail environment

Ciro's Italian Grill, Server

May 2022- Aug. 2022

- Enhanced interpersonal skills by engaging with guests and delivering attentive and personalized customer service

Aura Aquatics, Lifeguard

May 2020- Aug. 2021

- Improved communication and vigilance as a lifeguard, ensuring pool safety and quick response to potential risks

EXTRACURRICULARS

IEEE at Purdue University

Feb. 2023-

Present

- Member of the Computer Society technical committee, working on projects in developing games on a raspberry pi and a machine learning project developing a chat bot

Musical Instrument, Cello

Aug. 2014- Present

- Practiced and performed in numerous venues, including Carnegie Hall (2018), Lincoln Center (2020), Rudolfinum, Prague (2022), and the Muskverein, Vienna (2022)
- Member in the Purdue Philharmonic Orchestra