ANDREW PIPO

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Portfolio | LinkedIn | GitHub

EDUCATION

University of Cincinnati **Graduating: May 2025**
Bachelor of Science, Computer Science GPA: 3.514
Minor, Information Technology
Certificate, Software Engineering

EDUCATION RELATED EXPERIENCE

University of Cincinnati CEAS | ENED at UC Blue Ash (UCBA) Lead Peer-TA **Aug 2022 - Current**

- Collaborated with professor to achieve an active classroom for a general engineering course for first year students
- Facilitated Peer Mentoring sessions for first year-students providing advice and resources for their specific needs
- Managed a team of teaching assistants to help collaborate with professor to achieve an expanded active classroom

EDUCATION RELATED PROJECTS

ENED1120 at UCBA **Jan 2025 - Current**

- Modified existing logistics and developed curriculum for the ENED1120 general engineering course to achieve a more accessible classroom environment for students that attend UCBA or UC Clermont
- Designed and implemented a Raspberry Pi project to have students take images using an AI camera associated with the Raspberry Pi and to send data over to MATLAB to identify parking spaces and/or objects.
- Utilized the concept of Side Topics to pursue passive and active learning outside of the classroom for greater focus on immersive learning and experiences in the classroom to ensure students understand the concept and apply knowledge to real world experiences

ENED1100 at UCBA **Aug 2023 – Current**

- Designed and implemented various projects tailored to first-year engineering students taking ENED1100 at UC Blue Ash, including exploring Wireshark, developing a small website, and developing a Discord Bot in Python
- Designed and implemented a semester-long project to which students utilized Lego Mindstorm EV3 Kits to have a robot perform various automated parking procedures, similar to a real-world automated vehicle
- Modified existing logistics and developed curriculum for the ENED1100 general engineering course to achieve a more accessible classroom environment for students that attend UCBA Ash or UC Clermont

TECHNICAL SKILLS

Programming: HTML5, CSS, SCSS, JavaScript, TI-Basic, Python, C, C++, C#, VBA, LabVIEW, MATLAB, Assembly, Kotlin, Java, Rust, Prolog
Frameworks: .NET, Bootstrap, Svelte, D3.js
Software: Office 2016, Office 2019, Photoshop 2019, InDesign 2019, Visual Studio, Visual Studio Code, Android Studio
Tools: Git, GitHub, Artificial Intelligence
OS: Windows 10, Windows 11, Linux, iOS
Other: Customer Service, Mentoring, Course Development

TECHNICAL EXPERIENCE

ATech Training | Embedded Engineer Software Co-op **Jan 2023 – August 2024, Jan 2025 - Current**

- Developing automated testing for existing mass-produced products and automated scripts for day-to-day tasks
- Coordinating with coworkers to convert older hardware and software to modern technology
- Developed Android applications for a manufacturing environment to achieve efficiency
- Developed Diagnostic Software and Graphical User Interfaces using C# and .NET framework for Serial Communications
- Performed Quality Testing and Code Reviews for various products and internal software

TECHNICAL PROJECTS

Earthquake Data Visualization Project **Feb 2025 – Current**

- Collaborating with a colleague to develop a website that visualizes earthquake data provided from the United States government over the past year for our Data Visualization class at UC

Website Development for Small Businesses **Jan 2025 – Current**

- Development of various websites for small businesses that are starting up, including businesses specializing in cleaning services and power washing services

Quality Assurance Automation Project **Jan 2025 – Current**

- Developing hardware and software to automate testing various products before shipping to customers to ensure quality in an efficient manner

Smart Parking System **Aug 2024 – Current**

- Collaborating with a colleague to develop a mobile application and hardware to detect available parking spaces in busy urban areas and report to the user the location of available parking