Ryan Flynn

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https://rflynn523.github.io/ResumeWebApp/

A young engineer with a growing passion for computer engineering, specifically embedded systems, computer science, and software development.

Education

Bachelor of Science Degree in Computer Engineering

University of Central Florida

- Graduated in December 2020
- GPA: 3.3
- Minor in Psychology
- **Relevant Coursework:** Computer Science 2, Object Oriented Programming, Enterprise Computing, Database Systems, Operating Systems, Robotic Systems, Discrete Structures 2, Programming Languages, Embedded Systems, Digital Systems, Computer Architecture, Electronics 1.

Work Experience

Computational Design Programmer – *Cuhaci & Peterson Architects* – (Jan. 2021 - Present)

- Developing automation scripts that create Revit models for each team within the company.
- Communicating with other employees to create helpful process-based automation tools.
- Using Computational Design to integrate intelligence into data streams and automation scripts.
- Promoted from **Computer Programmer Intern** (March 2021)

Skills

Programming Languages: Python, Java, C, C++, C#, JavaScript, SQL, HTML, CSS, MIPS Assembly Language

Software Tools: Code Composer Studio, Android Studio, PyCharm, Atom, Visual Studio Code, Eclipse, Xilinx, Multisim, Google Colab, MySQL Workbench, Google Firebase, Dynamo

Hardware Tools: Raspberry Pi, MSP-EXP430 G2 and MSP-EXP430 FR6989 Launchpad Microcontrollers, FPGA BASYS Board, Breadboards, Boe-Bot

Familiar with: REST APIs, Postman, React JS, Java Swing, Tkinter, OpenCV, Openpyxl, Apache Tomcat, GitHub, Autodesk Revit, Microsoft Office

Projects

Pet Connect – *Python, Java, Google Firebase, Android Studio, Raspberry Pi* **(Senior Design)**

- A smart home system that allows homeowners to let their pets outside when they are away. An Android app lets the pet owner change the settings, talk to and see their pet.

Resume Web App – *HTML, CSS, JavaScript, React JS, GitHub Pages* **(Personal)**

- A personal website that is an extension of my resume to provide more details about my skills, education, and projects.

Budget GUI – *Python, PyCharm, Tkinter, Openpyxl, Microsoft Excel* **(Personal)**

- A desktop GUI application that reads and writes to an Excel budget spreadsheet to display monthly values and reset budget entries each month.

Escape Room – *Java, Android Studio* **(Class)**

- Android application that provides the user a fun Escape Room game experience. Developed in a team setting for a group project.

Multi-Function Seven Segment Display – *C, Code Composer Studio, MSPEXP-430 G2553* **(Personal)**

- Consists of two seven segment LEDs which are controlled by MSPEXP-430 G2553 microcontroller with some operation modes of a timer, a Morse code message, generate a random number, along with other functions.