

# Monthon Paul

+1-801-608-8717 | [PaulMonthon127@gmail.com](mailto:PaulMonthon127@gmail.com) | [linkedin.com/in/Monthon Paul](https://www.linkedin.com/in/Monthon Paul) | [github.com/Monthon-Paul](https://github.com/Monthon-Paul)  
[www.monthonpaul.dev](http://www.monthonpaul.dev)

## EDUCATION

### University of Utah

Salt Lake City, Utah

*College of Engineering: Bachelor of Science in Computer Engineering*

*August 2020 - expected 2024*

**Courses:** Object-Oriented Programming, Data Structures & Algorithms, Circuits & Systems II, Circuits & Systems I, Discrete Structures, Computer Organization

## EXPERIENCE

### Instructor / Grader (Part-time)

June 2020 – Present

*Kumon North America, Inc*

*Salt Lake City, UT*

- applied knowledge of K-12 learning for Math & Reading. Math expanding through the bare minimum of AP Calculus AB. Reading expanding with literature composition & Reading proficiency
- enter data results for students and keep track of their progress & planned a schedule for students

## PROJECTS

### Audio Filter Circuit - Analog Circuit | *Analog Circuit*

June 2022 – July 2022

- Input a Signal wave that goes in a low-pass filter, the signal will then be amplified & go to a Buffer to output Sound
- Uses basic Semiconductor parts
- inputs are a microphone where outputs with speakers

### Custom Spreadsheet Application | *C#, git, .NET MAUI*

September 2022 - November 2022

- Applied .NET framework to a replicate of a simple functionality of a Spreadsheet program, able to perform calculations on numbers and formulas
- Have features including New, Open, Save & Save As. Special features include Screenshot & display elements
- Build with C# using .NET 6.0 framework, uses .NET MAUI for GUI, & JSON formatting for data

### Website Portfolio | *JavaScript, HTML & CSS, Github Pages*

June 2022 - September 2022

- My side project where I am able to present my portfolio, interest, background, & projects.
- More detailed information of describing on my personal interest & bio
- Was able to host it using GitHub pages with a custom URL.

### Basic Fire Blinker Circuit | *Analog Circuits*

April 2021 - May 2021

- a small circuit that detects a certain amount of heat which turns on alternating LEDs.
- A hot enough temperature is able to power voltages over logic gates in order to flash LEDs with an oscillator alternating the logic gates.
- Uses the Analog discovery 2, LTspice for simulation, wrote an beginning IEEE paper.
- Parts: Resistors, Capacitors, Op-Amps, Thermistor, Logic Gates NAND, LEDs

### Context free Grammar text Generator | *Java, data structures & file reader*

November 2021 - December 2021

- CS project: choosing the right data structure & algorithm in order to generate a random Grammar text.
- Optimizes & conduct timing code to analyze an efficient algorithm.
- Dealt writing the code with recursive call & iterative call for choosing the best.

## TECHNICAL SKILLS

**Languages:** C#, Java, Python, JavaScript, HTML/CSS, MATLAB, LATEX, SQL, R

**Frameworks:** Familiar in MSUnit, JUnit, Jupyter, .NET, BigQuery, RStudio

**Developer Tools:** Git, MacOS, Web, Windows, Arduino, Spreadsheets, VS Code, Visual Studio, Eclipse

**Libraries:** Anaconda Python, NumPy, Matplotlib, discord.py,

## CERTIFICATE

---

### **Google Data Analytic Professional Course**

July 2022 - September 2022

*Coursera & Google*

*Online*

- Acquired critical skills in how to prepare, process, clean, analyze, and share data.
- Learn how to organize it into a presentable manner using options such as formulas, functions, and visualization methods.
- understanding the uses Spreadsheets, SQL, and R programming language.

## VOLUNTEER

---

### **Volunteer Hospital**

Jun 2017 – Aug 2017

*University of Utah Health Hospital*

*Salt Lake City, UT*

- Volunteer at the University of Utah Hospital, where I help patients & employers.
- Either Valet parking, or introducing patients, & bringing snack charts through the Hospital.