

Monthon Paul

+1-801-608-8717 | PaulMonthon127@gmail.com | [linkedin.com/in/Monthon-Paul](https://www.linkedin.com/in/Monthon-Paul) | github.com/Monthon-Paul
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 I,II,III, Discrete Structures, Computer Organization, Software Practice I, Digital System Design

EXPERIENCE

Learning Assistant Instructor

January 2023 – Present

Center for Science & Mathematics Education, University of Utah

Salt Lake City, UT

- Became a Learning Assistant for the Math department of University of Utah. Help students learn & assist in teaching MATH 1210 (Calculus I).
- Held Office hours for students. Instruct Lab classes to guide Students. Manage materials & scheduling with Professor's for the class.

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*

October 2022 – November 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
- Develop Power Supply with a Transformer & Full-bridge Rectifier for converting AC to DC to power the circuit
- Uses basic Semiconductor parts, test out amplifier with Op-Amps, BJT's, NMOSFET's
- inputs are a microphone where it outputs into speakers

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

September 2022 - November 2022

- Applied .NET framework to replicate 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 alternating LEDs with an oscillator
- Uses the Analog discovery 2, LTSpice for simulation, wrote an beginning IEEE paper.
- Parts: Resistors, Capacitors, Op-Amps, Thermistor, Logic Gates, 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.

TECHNICAL SKILLS

Languages: C#, C/C++, Java, Python, JavaScript, HTML/CSS, MATLAB, L^AT_EX, Verilog, SQL, R

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

Developer Tools: Git, MacOS, Web, Windows, Arduino, Spreadsheets, VS Code, Visual Studio, Eclipse, RStudio, PSpice, LTSpice

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.