Eric Liu

eliu4@buffalo.edu || 646-573-4661 || Amherst, NY

EDUCATION

UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK   May 2021
Computer Engineering Bachelor of Science   3.01/4.00

RELATED PROJECTS

Pacman Game   June 2020
- Created the Pacman game using ARM assembly language and ARM processor and displayed it on PuTTY
- Implemented the ghost AI that changes behavior according to the state of Pacman
- Designed and constructed the board layout of the game

Automatic Coin Sorter   Nov 2019
- Designed and created a device to sort coins using IR sensors, vibration motor, Arduino, LCD display
- Used C language to import the I2C library and calculate the total inserted
- LCD screen displays the total amount of money in the sorter as well as the quantity of coins present in each individual storage bin

John Horton Conway's Game of Life   Feb 2019
- Created Conway's Games of Life using C language that displays the final generation in console
- Programmed the algorithm to calculate the next generation
- Used two 80 by 24 matrices to store the current generation and new generation

SHPE National Convention Extreme Engineering Challenge   Oct 2018
- Managed the marketing team and developed marketing strategies that would showcase our product
- Designed and constructed the physical components of the engineering project
- Created a website and managed social media platforms to provide a description and uses of our project

Songs/ Products Organizer   June 2018
- Developed a software program to analyze data and identify the song has the best rating using java
- Used sample data from a csv file to test and modify my program
- Displayed the most desired songs and products using a console

MATLAB programming project   Apr 2018
- Developed a program that calculated the fin efficiency for different metals
- Used plotted graphs in order to determine which metal is the most suitable

EXPERIENCE

University at Buffalo Theater Department, Buffalo, NY
Assistant/Accountant   Oct 2018 - May 2020
- Documented financial transactions by entering account information
- Verified and reconciled 10 transactions monthly
- Produced error-free monthly reconciliation reports and presented the results

Twin's Supermarket, Belize City, Belize
Assistant Manager   Jan 2016 - June 2016
- Managed 720 delivery arrivals in the warehouse to be sorted and sold
- Improved inventory from 450 incoming delivery orders
- Maintained integrity of phones, computer systems and networking for the establishment
- Transported merchandise via delivery truck to destination and unloaded the products to the purchaser
- Oversaw establishment's financial transactions, and ensured balanced transaction amounts

TECHNICAL SKILLS

- Programming languages - PHP, Java, JavaScript, HTML, CSS, MYSQL, MATLAB, C, C++, Assembly
- Software - Microsoft Office, Microsoft Visio, Adobe Photoshop, Creo Parametric
- Bilingual - Cantonese

LEADERSHIP AND CERTIFICATE

- Mentor - Society of Hispanic Professional Engineers Mentorship Program   Sep 2018 – May 2019
- Treasurer - Society of Hispanic Professional Engineers   Aug 2018 – May 2019
- AT&T Summer Learning Academy Externship 2020   June 2020 – July 2020