Jeffrey S. Yu

Duluth, GA 30097 | (470) 848-9455 | jeffreyyu880@gmail.com | https://www.linkedin.com/in/jeffrey-yu-880

Education

Major: Bachelor of Science in Computer Engineering — Fall 2019 - May 2023
Minor: Mathematics — GPA: 3.97
University of Florida, Gainesville, FL

Major Coursework

Computational Linear Algebra (MATLAB), Programming 1 (Java), Programming II (C++), Discrete Structures, Digital Logic, Micro-Processor Applications, Differential Equations for Engineers and Physical Scientists, and Computer Aided Design

Experience

RDM Innovation System Design Intern — November 2019 – January 2021
Gainesville, FL
Design, develop, and create mold and a semi-automated silicone molding manufacturing system to create a consumer product.

- Worked on all phases of system design: conceptualizing ideas through sketching, creating models through SolidWorks, prototyping, testing, and fabrication for both the mold design as well as the manufacturing assembly.
- Designed product molds to be printed with stereolithography printers.

Machine Intelligence Laboratory at University of Florida — August 2019 - May 2020
Design and program a custom printed circuit board (PCB) to interface with Navigator, an autonomous boat.

- Designed a custom PCB using Altium.

Projects

Minesweeper Game Design

- Created a minesweeper game with GUI using C++ and SFML library. Used OOP, MVC, and 2D std vector design with recursive functions and uniform random distribution to create the gameboard.

Pac-Man Game Logic Design

- Implemented a Pac-Man game logic to control the Pac-Man using OOP concepts and Swing framework in Java.

2D Image Processing

- Created an image processing application to blend and apply color filters to images using OOP design and raw image IO.

VHDL CPU Design

- Implemented a Von Neumann CPU that performed arithmetic operations using VHDL. This CPU performs addition, subtraction, 2's complement, logical shifting, as well as bitwise AND/OR operations.

Skills

C++	Java	Python	OODP
Rapid Prototyping	Stereolithography/Fusion Deposition Modeling Printing	Fabrication/Soldering	Computer Aided Design

Tools and Frameworks

Visual Studio 2019 Community, Visual Studio Code, IntelliJ IDEA, C++ SFML GUI Library, Anaconda, Jupyter Notebook, Intel Quartus, Altium, QtSpim, PuTTY, Ubuntu Linux, Windows OS, GitHub, SolidWorks Standard Version 2020

University Involvement

UF Symphony Orchestra — August 2019 - May 2020

- Performed symphonies and concertos like Shostakovich No. 1, Prokofiev Concerto No. 1, and Chopin Piano Concerto No. 1, as a violinist to an audience of around 2000 people,

Awards

NCR Foundation Global Scholarship (2020-2021)
University of Florida Engineering College Scholarship (2020-2021)