

## **EDUCATION**

### **Carnegie Mellon University**

Pittsburgh, PA

**Class of 2023**

Bachelor of Science in

**Electrical Computer  
Engineering & Robotics**

**GPA : 4.0/4.0**

### **Coursework**

Introduction to Computer  
Systems

Fundamentals of  
Programming

Principles of Imperative  
Computation

Introduction to Functional  
Programming

Electronic Devices and  
Analog Circuits

Introduction to Robotics

Signals and System

### **Technical Skills**

Python

C/C++/x86 Asm

SML

Matlab

HTML/CSS/Javascript

Altium

## **TECHNICAL EXPERIENCE**

### **Software Engineering Intern | STERIS | OH |**

**May 2021 - Present**

- Researched, presented, and implemented One Time Password algorithms in C for in market devices
- Implemented international language support in C++ for in-development embedded ARM device
- Implemented a Python script to integrate excel translations into C++ code to for easy changes in translations
- Wrote python script to translate existing excel documentation into LaTeX used by the team in architecture document
- Utilized SVN, GIT, and Code collaborator to source, document, and version control code

### **Principles of Imperative Computation (15-122) Teaching Assistant | CMU | Remote | Jun 2021 - Present**

- Led and taught recitation of 30+ students every week
- Held office hours three times a week to answer conceptual, code and homework questions as well as debugged code

### **EE/Security Intern | Buzr. | NY | Jan 2021 – Feb 2021**

- Ran, integrated, and analyzed security penetration tests for Android, IOS, AWS environments
- Managed, created, and QAed custom Altium components

## **ENGINEERING PROJECTS**

### **Malloc Implementation | April 2021**

- Solution utilized implicit and doubly linked lists and segregated linked list for free nodes, and header bit metadata for dynamic memory allocation in C

### **Proxy Server | May 2021**

- Implemented multithreaded, caching proxy server in C
- Handled HTTP GET requests

### **Sun Sensor | Aug 2020 – Present**

- Designed PCB Sun Sensor in Altium that determines the Sun's angle with 6 photodiode arrays
- Implemented SPI in C on the board
- Implemented I2C C code between two MSP430s to emulate power monitoring

### **Hack 112 | Apr 2020 | (2nd place Award)**

- Used Natural Language Processing and web scraping to determine genres of books by analyzing text excerpts