John Carberry

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Electrical & Computer Engineering student with internship experience at 3M (Acelity). Skilled in MATLAB, Python, C, Arduino, SolidWorks, Eagle, Verilog, Assembly, and C++.

**EDUCATION**

**University of Colorado Boulder Boulder, CO**

*Bachelor of Science in Electrical and Computer Engineering Expected Graduation: May 2022*

* **GPA:** 3.59 / 4.0
* **Coursework:** C Programing, Embedded Systems, Digital Logic, Data Structures, Programing Digital Systems
* **Projects and Relevant Work:** Touch screen Bluetooth smart watch prototype using MSP432, FPGA development, Circuit Design in Electronics Design Lab, design of UART Drivers, work with I2C drivers
* **Git:** https://github.com/john-carberry **Hackster:** https://www.hackster.io/jpc99
* **Certificates:** SolidWorks Associate, May 2019
* **Achievements:** Deans List (Fall 2019)
* **Involvement:** Triathlon Club Treasurer in control of an annual budget of over $50,000, May 2019 - Present

**University of Miami Coral Gables, FL**

*Studied Biomedical Engineering Attended: August 2017-May 2018*

* **GPA:** 3.90 / 4.0
* **Involvement:** Independent study on Python and Android app development with software engineering club
* **Achievements:** Deans List, Foote Fellows Honors Program, Provost’s Honors Roll

**RESEARCH EXPERIENCE**

**Balloon Satellite Launch Colorado Springs, CO**

*Independent Research August 2015 – May 2017*

* Designed two high altitude weather balloons to collect atmospheric data from up to 112,000 ft
* Collected data by creating an Arduino with pressure, temperature, GPS, and SD logging functionality
* Utilized MATLAB to analyze the flight path and trends in the Arduino data
* Video of first launch: https://youtu.be/ZVEzt8gBKw4

**WORK EXPERIENCE**

**3M (formerly Acelity) San Antonio, TX**

*Product Development Engineer Intern May 2019 – July 2019*

* Designed and tested components for medical devices with knowledge of ANSI, IEC, and GD&T standards
* Used SolidWorks to model devices and preform finite element analysis following analysis using hand calculations
* Collaborated with other engineers and the head of global strategic marketing to present multiple design options
* Designed components to reduce the cost of manufacturing and exceed all design requirements
* Maintained an accurate log of all work done to comply with all FDA standards
* Learned and implemented principles of systems engineering and procedures for product development processes

**EduKit Colorado Springs, CO**

*Order Fulfillment Technician June 2018 – August 2018*

* Worked independently and on a team to accurately deliver orders to customers and other departments

**Mack Cycle and Fitness Miami, FL**

*Accounts Receivable April 2018 – May 2018*

* Used Microsoft RMS to catalog the store’s inventory and create purchase orders
* Received incoming orders, priced items, created the items in the system, and labeled the items for sale

**Freddy’s Steak Burgers  Colorado Springs, CO**

*Cook* *May 2017 – August 2017*

* In charge of quality control and food safety procedures, and trained other employees