Samuel Kaplan

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Education

Olin College of Engineering *May 2023*
B.S. in Engineering: Concentration, Robotics
Recipient of 50% merit scholarship over 4 years

Roslyn High School – Roslyn Heights, NY
Graduated June 2018
Weighted GPA: 101.515

Skills

Python, Arduino, Raspberry Pi, 3D printing/G-Code, FEMA ICS-100 Certified

Experience

Olin Rocketry Club – *Needham, MA* *October 2019 – Present*
Sensing Lead - Avionics Subteam

- Club goal is to send rocket to 10,000ft for the Intercollegiate Rocket Engineering Competition.
- Currently working on avionics subsystems such as radio communications and accelerometer/barometer sensors, with goal of detecting apogee accurately and correctly initiating parachute deployment sequence.

Sylvan Learning – *Port Washington, NY* *March 2019 – July 2019*
Course Assistant

- Tutored children from ages 6 to 14 in English, math, engineering (Lego Robotics), and computer science.
- Conducted fun activities for special school break sessions, such as making slime, carnival day, and magic card tricks

Uncharted Power – *New York,, NY* *June 2018 – December 2018*
Product Development Associate

- UP is a renewable energy and microgrid startup based in Harlem.
- Assisted with product designs from concept to production, including specification, design, prototyping, validation, and testing.
- Worked on hardware-to-software interfaces with Python, Arduinos, Raspberry Pi's, and their variants.

Gap Year Project
Facial/Body Recognition Drone *December 2018 – February 2019*

- First stage of an independent engineering project to create a drone that autonomously follows the user based on face/body recognition.
- Consisted of implementing OpenCV on a Raspberry Pi (used for the computationally intensive tasks).
- Created a Python to serial interface so the Raspberry Pi and communicate with the Arduino, which is controlling the quadcopter.

Roslyn High School *September 2018 – June 2019*
Robotics Club, Founder and President

- Ran club meetings, which were composed of either lessons or build sessions.
- Responsible for community outreach to raise funding and awareness of the club.
- Mechanical and programming lead for the VEX Robotics competition bot.