Prangon Ghose

□ prangon.gh@gmail.com

♦ 917-435-9506 | **♦** prangonghose.com

I in prangonghose

Education _

Stony Brook University

Stony Brook, NY

BACHELOR OF ENGINEERING (B.E.), COMPUTER ENGINEERING

August, 2017 - PRESENT

• Anticipated Graduation: May, 2021

• **GPA:** 3.7/4.0

- Organization(s): Stony Brook Robotics Team, IEEE-Eta Kappa Nu Honors Society Theta Mu Chapter, Institute of Electrical and Electronics Engineers (IEEE)
- Honors/Awards: Dean's List (All Semesters), Presidential Scholarship, CEAS Dean's Scholarship
- Relevant Coursework: Data Structures, Embedded Systems Design with ARM and AVR Microcontrollers, C/C++ Programming, Java and Object-oriented Programming, Digital Design using VHDL and PLDs, Computer Architecture, Modern PCB Design

Stuyvesant High School

New York, NY

ADVANCED REGENTS DIPLOMA WITH HONORS

September, 2013 - June, 2017

Skills

Programming Languages Python, C++, C, Java, Assembly (MIPS and AVR), HTML, CSS, JavaScript

Software Git, SQL, UNIX/Linux

Hardware Embedded Systems (ARM and AVR), VHDL, Autodesk EAGLE

Professional Experience _____

Enertiv

New York, NY

IOT DATA ANALYST

January, 2020 - PRESENT

- Analyzed the viability of Long Range (LoRa) Internet-of-Things (IoT) sensors to expand Enertiv's sensor portfolio, resulting in nine new sensor integrations
- Standardized the sensor installation process by developing an Angular Web App with a Django backend to collect sensor configuration data, reducing sensor integration time by 10%
- Established a framework for integrating Modbus sensors into the Enertiv sensor network using LoRaWAN, decreasing the cost of Modbus sensor installations by 20%

Science and Technology Entry Program (STEP), Stony Brook University

Stony Brook, NY

INSTRUCTOR

January, 2019 - PRESENT

- Launched the Program's first-ever coding course using Python, teaching 15-20 high school students every semester
- Advanced the coding course by creating and teaching a 7-week course on introductory object-oriented programming in Python, increasing students' confidence in their skills to 85%

Leadership Experience ______

Stony Brook Robotics Team

Stony Brook, NY

PRESIDENT, PROJECT MANAGER, SOFTWARE TEAM LEAD

May, 2018 - May, 2020

- Expanded active member participation by 150% and recruited over 45 students across three engineering teams to revitalize competition-based project development
- Streamlined the team structure and communication system, accelerating each project's road-map by 20% and increasing member productivity by 10%

Projects __

AutoCar

An autonomous ground vehicle, built with Python and C

• Developed a message-passing API in Python to transmit and receive NumPy arrays, JSON objects, and other fundamental data types using the ZeroMQ framework and the publisher-subscriber pattern to communicate in between various subsystems

Motion-detecting Sign

A CUSTOMIZABLE LED SIGN WITH MOTION DETECTION, DESIGNED IN EAGLE

• **Designed** a two-layer printed-circuit board in Autodesk EAGLE with an on-board, re-programmable STM32L0 low-power micro-controller and a USB-based power system, streamlining the circuit and reducing hardware costs