

Prangon Ghose

✉ prangon.gh@gmail.com | ☎ 917-435-9506 | 🏠 prangonghose.com | 📷 holyrouge | 📺 prangonghose

Education

Stony Brook University

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

Stony Brook, NY

August, 2017 - PRESENT

- **Anticipated Graduation:** May, 2021
- **GPA:** 3.7/4.0
- **Organization(s):** IEEE-Eta Kappa Nu Honors Society – Theta Mu Chapter, Science and Technology Entry Program (Instructor)
- **Honors/Awards:** Dean's List (All Semesters), Presidential Scholarship, CEAS Dean's Scholarship
- **Relevant Coursework:** C/C++ Programming, Java and Object-oriented Programming, Data Structures, Embedded Microprocessor Systems Design, Digital Design using VHDL and PLDs, Computer Architecture, Modern PCB Design

Stuyvesant High School

ADVANCED REGENTS DIPLOMA WITH HONORS

New York, NY

September, 2013 - June, 2017

Skills

Programming Languages Python, C++, C, Java, Assembly, HTML, CSS, JavaScript

Software Git, SQL, UNIX/Linux

Hardware Embedded Systems, VHDL, Autodesk EAGLE

Professional Experience

Enertiv

IoT DATA ANALYST

New York, NY

January, 2020 - January, 2020

- **Analyzed** the viability of seven LoRa-based Internet-of-Things sensor solutions to expand the company's product portfolio, implementing testing procedures and effectively diagnosing potential risks
- **Engineered** a decoder in JavaScript to translate LoRa data packets, increasing the ability to analyze real-time sensor data

IAB Technology Laboratory

PRODUCT DEVELOPMENT INTERN

New York, NY

June, 2018 - August, 2018

- **Reviewed** technical product documentation regarding data protection and privacy to create understandable instructions and standards for the digital advertising industry
- **Modernized** the organization's online presence by implementing search engine optimization (SEO) across its Wordpress site through the use of Google Analytics and SEO plugins

Leadership Experience

Stony Brook Robotics Team

PRESIDENT, PROJECT MANAGER, SOFTWARE TEAM LEAD

Stony Brook, NY

May, 2018 - PRESENT

- **Expanded** active member participation by 150% and recruited over 20 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

A 10:1 RATIO 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
- **Integrated** the hardware and software systems by using the Inter-Integrated Circuit (I2C) protocol to communicate between a Jetson TX2 Embedded Computing Module and peripheral boards, reducing hardware costs by 50%

Motion-detecting Sign

A CUSTOMIZABLE LED SIGN WITH MOTION DETECTION, DESIGNED IN **EAGLE** AND DEVELOPED IN **C**

- **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
- **Implemented** a C program on the on-board STM32L0 micro-controller to control an array of LEDs using motion sensor data