

# 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

### Stuyvesant High School

ADVANCED REGENTS DIPLOMA WITH HONORS

New York, NY

September, 2013 - June, 2017

## Skills

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

**Software** Git, SQL, UNIX/Linux

**Hardware** Arduino, VHDL

## Professional Experience

### IAB Technology Laboratory

PRODUCT DEVELOPMENT INTERN

New York, NY

June, 2018 - August, 2018

- **Increased** understanding of member needs by documenting inter-company exchanges through Salesforce to track relationships between the organization and its members
- **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%
- **Partnered** with on-campus and off-campus organizations to acquire over \$4000 of funding and resources to support the team's growth and outreach efforts
- **Revamped** event planning, increasing workshop attendance by 40% and leading event collaboration efforts with new partners

## Projects

### AutoCar

**IN PROGRESS** | A 10:1 RATIO AUTONOMOUS GROUND VEHICLE, BUILT WITH **PYTHON, C++, AND C**

- **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 10%

### Tetra

AN AUTONOMOUS AND RC-CAPABLE ROVER, BUILT WITH **PYTHON AND C++**

- **Amplified** the rover's maximum range by over 400% by implementing a point-to-point WiFi network using Ubiquiti Rocket M2 BaseStations and Omni antennas to transmit video, telemetry, and control data between the rover and the base station

### EnerGeo

**HONORABLE MENTION AND THE WOLFRAM AWARD AT INNOVATEIT 2019** | AN APPLICATION TO FIND

THE OPTIMAL RENEWABLE ENERGY SOURCE BASED ON LOCATION, BUILT WITH **PYTHON AND JAVASCRIPT**

- **Spearheaded** the development of the data gathering and analysis system using Python to calculate the optimal renewable energy source based on user location, local energy prices, and historical climate data from various APIs