Prangon Ghose

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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):** 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

New York, NY

Advanced Regents Diploma with Honors — *September, 2013 - June, 2017*

Skills

Programming Languages Python, Java, C++, C, HTML, CSS, Assembly (AVR), JavaScript
Software Git, SQL, UNIX/Linux
Hardware Arduino, VHDL, AVR Microcontrollers

Professional Experience

IAB Technology Laboratory

New York, NY

Product Development Intern — *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

Stony Brook, NY

President, Project Manager, Software Team Lead — *May, 2018 - PRESENT*

- **Expanded** active member participation by 150% and recruited over 20 students across three design 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 self-driving vehicle, built with **Python**, **C++**, and **C**

- **Integrated** the hardware and software systems by using the Inter-Integrated Circuit (I2C) protocol to communicate command and telemetry data in-between a Jetson TX2 Embedded Computing Module and peripheral boards

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