

# Prangon Ghose

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## 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) (Inducted 2018), College of Engineering and Applied Sciences (CEAS) Peer Mentoring Program (Peer Mentor), 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, Digital Systems Design

### 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, UNIX/Linux, Salesforce

**Hardware** Arduino, VHDL, AVR Microcontrollers

## Professional Experience

### IAB Technology Laboratory

PRODUCT DEVELOPMENT INTERN

New York, NY

June, 2018 - August, 2018

- **Communicated** with members to provide support, to increase awareness of IAB Tech Lab projects, and to encourage engagement in the organization's efforts
- **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

- **Enhanced** the team's productivity and development process by overhauling the team structure, recruiting over 12 undergraduate and graduate students, and introducing an agile project management methodology
- **Designed** the software architecture for the University Rover Challenge (URC) 2019 Mars Rover, based on competition requirements and hardware specifications to create a robust foundation for future iterative development

### Center for Civic Justice at Stony Brook University

LEAD CONTENT AND SOCIAL MEDIA MANAGEMENT INTERN

Stony Brook, NY

June, 2018 - May, 2019

- **Established** the Social Media and Graphic Design team and laid the foundation for the organization's marketing capabilities by training four interns and developing guidelines on the effective management of various media channels
- **Engaged** over 2000 students in the voting process by formulating social media strategy across Instagram, Facebook and Twitter to provide them with the necessary knowledge to become active members of their communities

## Projects

### Tetra

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

- **Expanded** 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 the data gathering and analysis back-end using Python to calculate the optimal renewable energy source based on user location, local energy prices, and historical climate data from various APIs