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):** Stony Brook Robotics Team, IEEE-Eta Kappa Nu Honors Society - Theta Mu Chapter
- **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 Systems Design with ARM and AVR Microcontrollers, 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, HTML, CSS, JavaScript
Software   Git, SQL, UNIX/Linux
Hardware   Embedded Systems, VHDL, Autodesk EAGLE

Professional Experience

Enertiv   *New York, NY*
IoT Data Analyst   *January, 2020 - PRESENT*
- **Analyzed** the viability of seven Long Range (LoRa) Internet-of-Things (IoT) sensor solutions to expand the company's product portfolio, implementing testing procedures and effectively diagnosing potential risks
- **Engineered** backend programs in Python to automate the integration of five new sensors, creating features to increase ease-of-use and clarifying the process for future sensor suites
- **Implemented** a decoder in JavaScript to translate LoRa messages, increasing the efficiency of real-time sensor data analysis

IAB Technology Laboratory   *New York, NY*
Product Development Intern   *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 the organization's Wordpress site using 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 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%
- **Partnered** with five on-campus and off-campus organizations to acquire over $4000 to support the team's long-term growth

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

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