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, Institute of Electrical and Electronics Engineers (IEEE)
- **Honors/Awards:** Dean's List (All Semesters), Presidential Scholarship, CEAS Dean's Scholarship
- **Relevant Coursework:** Data Structures, C/C++ Programming, Java and Object-oriented Programming, 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

Software Python, C++, C, Java, Assembly (MIPS and AVR), HTML, CSS, JavaScript, Bash, Git, SQL, UNIX/Linux

Hardware Embedded Systems (ARM and AVR), Raspberry Pi, Arduino, VHDL, Autodesk EAGLE

Professional Experience

Enertiv
New York, NY

IoT Data Analyst Intern — *January, 2020 - PRESENT*

- **Integrated** 12 Internet-of-Things (IoT) sensors using Python, expanding Enertiv's sensor portfolio by 2x and launching 5 new IoT packages
- **Developed** the E3 circuit meter's firmware in Python on a Raspberry Pi, supporting 2 new data types and 3 additional channels
- **Overhauled** the sensor installation process by developing a Django and AngularJS web app, reducing installation time by 10%
- **Designed** a Python framework for capturing Modbus sensor data wirelessly, decreasing hardware costs by 15%

Science and Technology Entry Program (STEP), Stony Brook University
Stony Brook, NY

Instructor — *January, 2019 - PRESENT*

- **Launched** the Program's first-ever computer science course using Python, teaching 40 high school students over 3 semesters
- **Expanded** the computer science course offerings by planning and teaching a 7-week object-oriented programming course, increasing the students' confidence in their skills to 85%

Leadership Experience

Stony Brook Robotics Team
Stony Brook, NY

President, Project Manager, Software Team Lead — *May, 2018 - May, 2020*

- **Improved** active member participation by 150% and recruited 45+ students across 5 sub-teams to revitalize membership
- **Streamlined** the team's project management across 2 projects and 9 subsystems, increasing member productivity by 25%

Projects

Wireless Controller for Easy Embedded Integration
A wireless controller with USB, SPI, and I2C for embedded applications

- **Developed** the project requirements, in a team of 4, by analyzing controller designs and wireless communication methods

AutoCar
An autonomous racing vehicle

- **Designed** the project's systems-level architecture, collaborating with 3 team leads and 7 subsystem leads to establish priorities, deliverables, and deadlines for 30+ members

Motion-detecting Sign
A customizable LED sign with motion detection

- **Created** a two-layer printed-circuit board with an STM32 ARM microcontroller and a USB power system in Autodesk EAGLE