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