Prangon Ghose

prangon.gh@gmail.com | 917-435-9506 | prangonghose.com | prangongh | prangonghose

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 Systems Design using VHDL and SystemVerilog, Computer Architecture

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, SystemVerilog, Autodesk EAGLE

Professional Experience

Enertiv
New York, NY

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

- **Integrated** 14 Internet-of-Things (IoT) sensors using Python, expanding Enertiv's sensor portfolio by 2x and launching 7 new IoT packages
- **Developed** the E3 circuit meter's firmware in Python on a Raspberry Pi, capturing 4 new data types to more accurately measure energy consumption
- **Spearheaded** Enertiv's first-ever IoT deployment in Europe, developing documentation to install 5 IoT packages, verifying sensor data, and diagnosing installation issues
- **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 serial interfaces for embedded applications

- **Developed** the WiFi and radio interfaces and protocols in C to optimize short-range and long-range wireless communication
- **Organized** the project's requirements and year-long road-map, in a team of 4, by delegating tasks, setting milestones, planning regular meetings, communicating with advisors and mitigating risks

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