Prangon Ghose

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Education

Stony Brook University

Stony Brook, NY

BACHELOR OF ENGINEERING (B.E.), COMPUTER ENGINEERING Expected Graduation May, 2021

- **GPA:** 3.7/4.0
- 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
- Organization(s): Stony Brook Robotics Team, IEEE-Eta Kappa Nu Honors Society Theta Mu Chapter, Institute of Electrical and Electronics Engineers (IEEE)

Skills

Software Python, C++, C, Java, HTML, CSS, JavaScript, Bash, Git, UNIX/Linux, Assembly (MIPS and AVR), SQL 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
- 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%
- Developed the company's Linux-based smart energy meter's firmware in Python on a Raspberry Pi, capturing 4 new data types to more accurately measure energy consumption
- 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%

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

EnerGeo

A WEB APPLICATION FOR RENEWABLE ENERGY COSTS COMPARISON

Analyzed historical weather, utility and location data from APIs in Python to measure the viability of solar and wind energy

Leadership Experience

Stony Brook Robotics Team

Stony Brook, NY

May, 2018 - May, 2020

- PRESIDENT, PROJECT MANAGER, SOFTWARE TEAM LEAD
- 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%