Anubhav Dutta

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Seeking a position as an engineer where extensive experience will be further developed and utilized. Extensive experience to the credit.

Want to further study Embedded Systems and deploy IoT based Solutions

SKILLS

Programming/Markup Languages:

Java, C, C++, JavaScript, HTML5, CSS3, Python

Frameworks acquainted with:

React JS, Node JS, Bootstrap, Django, Arduino, Platform IO

Protocols worked on:

UART, I2C, MQTT, LoRaWAN

WORK EXPERIENCE

The Sparks Foundation September 2021 — October 2021
(Project Intern)

- Been a Computer vision and IoT intern
- Deployed a Fault Detection System, which used Computer vision to detect fault items and discarded them using a pushing mechanism off the conveyor belt
- Also used MQTT to make to detect the proximity of the object and make the pushing mechanism wireless

Bufo Innovations Pvt. Ltd December 2021 – January 2022
(IoT Application Developer)

- The major task was to design and implement an IoT Gateway that will integrate Modbus RS-485 Protocol to enable monitor heavy energy meters and industrial sensors (Used: Atmega2560, MAX485, DS3231)
- Writing Firmware to fetch data, parse into payloads and send data using an NB IoT device transmit data using AT-commands
- Testing Hardware and flashing equivalent Embedded C codes
- Making Schematics with adaptive changes

Artificial Learning Systems January 2022 – March 2022
(Assistant Software Engineer)

- The company had previously designed a ML model that aimed to provide early diagnosis of Diabetic Retinopathy. The idea here was to get annotations and advices on spot from doctors remotely from different locations.
- My job here was to build a 3-axis OCT (Optical coherence tomography) device, fully controllable remotely with low latency and high accuracy such that doctors could control them remote in real-time.
- Frameworks used: Socket IO, Angular JS, Arduino IDE
- Hardware used: ESP32, Stepper Motors, Joysticks

INTERESTS

- **Embedded System and IoT**
- **Web/App Development**
- **Competitive Programming**
- **Computer Vision**

PROJECTS

Follow the Links below to get full documentation:

- Replica of Arduino Breakout-board for off-board projects using UART
- Micro Servo Bot using Arduino UNO
- Smart Bin using HC-SR04 Ultrasonic Sensor
- Pong Game using 8x8 LED Matrix and Arduino Nano
- Fault Detection Using OpenCV and MQTT

EDUCATION

Higher Secondary Education April 2017 — April 2019
WWA Cossipore English School, Kolkata-700002
Completed the ISC with 92.5 percentage

Bachelor of Technology June 2019 — Present
Kalyani Government Engineering College
Last GPA score: 9.5 SGPA