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

Hardware Description Languages:
Verilog

Programming/Markup Languages:
Java, C, C++, JavaScript, HTML5, CSS3, Python

Tool Chains:
Vivado, EDAPlayground, FluidSim, Siemens TIA Portal

Frameworks acquainted with:
Node JS, Bootstrap, Flask, Arduino, Platform IO

Protocols worked on:
UART, I2C, MQTT, LoRaWAN

WORK EXPERIENCE

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

- 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 theobject and make the pushing mechanism wireless

Bufo Innovations Pvt. Ltd December 2021 – January 2022
(IoT Application Developer) (Kolkata, West Bengal)

- The major task was to design and implement an IoT Gateway that will integrate Modbus RS-485 Protocol toenable 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

Artificial Learning Systems January 2022 – March 2022
(Assistant Software Engineer) (Kolkata, West Bengal)

- 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 spotfrom 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 controlthem remote in real-time.
- Frameworks used: Socket IO, Angular JS, Arduino IDE

Hardware used: ESP32, Stepper Motors, Joysticks

Siemens Mobility India July 2022 – August 2022
(Project Management Intern) (Gurgaon, Haryana)

- Learning ways of Project Management in SiemensMobility – How Siemens Mobility works and what services do they provide
- Making SharePoint Pages for Project Managers/ Commercial Project Managers Competency management
- Learning to filter data using Pivot tables in Excel
- Learning how to manage compliance using IBM Requirement DOORS®
- Going on Site Visits to check out latest Technologies Tools

Used: SharePoint, Excel, Requirement DOORS, PowerBi

INTERESTS

- **Embedded System and IoT**
- **FPGA Development**
- **PCB Designing**
- **VLSI**
- **Computer Vision**
- **Web/App Development**
- **Competitive Programming**

PROJECTS

Follow the Links below to get full documentation:

- **Smart Bin** using HC-SR04 Ultrasonic Sensor
- **Micro Servo Bot** using Arduino UNO
- **Fault Detection System** Using OpenCV and MQTT
- **8-Bit ALU Design** Using Verilog in Vivado

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, Nadia - 741235
Aggregate GPA score: 9.25 CGPA