

# 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

**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

### 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

### 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

### Siemens Mobility India

July 2022 – August 2022

(Project Management Intern)

- Learning ways of Project Management in Siemens Mobility – 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:

- [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