# Anubhav Dutta

anubhavd666@gmail.com | (+91) 9748959439 | luke-anubis.vercel.app

# **EXPERIENCE**

#### L&T PRECISION ENGINEERING SYSTEMS

System Design Engineer

Jul 2023 – Present | Pune, Maharashtra

#### **Embedded Systems & Firmware Development**

- Developed and maintained embedded software in C/C++ for power-critical radar applications using VxWorks RTOS.
- Hands-on experience with **real-time system design**, microcontroller architecture, and low-level firmware debugging.
- Collaborated with cross-functional teams for feature implementation, validation, and performance optimization of firmware components.
- Utilized debugging tools such as **logic analyzers** and **oscilloscopes** for hardware-software integration and validation.

#### **Radar Power Systems & Hardware Integration**

- Specialized in Radar Power Systems, including switchgear specification, cable routing, and harness chart creation for defense-grade hardware.
- Designed and integrated **VME-bus based systems** supporting high-throughput and real-time data communication.
- Engineered PLC-based control systems with ladder logic, structured text, and FBD, interfacing with industrial automation protocols.

#### **Product Lifecycle Management**

- Created and maintained BOMs and managed component obsolescence for PDUs, junction boxes, and control panels.
- Handled **change management**, **CAD-integration**, and configuration control to support iterative product improvements.

#### **Tools and Platforms:**

Dassault 3DEXPERIENCE ENOVIA, Siemens NX UGNX, Zuken E3, AutoCAD, QT5, Automation Builder

# **ARTIFICIAL LEARNING SYSTEMS** | Assistant Software Engineer Intern

January 2022 - March 2022 | Kolkata, West Bengal

- Developed a real-time operable webpage using AngularJS and SocketIO.
- Built a joystick-based controllable 3-axis frame using ESP32 and Raspberry Pi, utilizing RTOS.

Frameworks used: SocketIO, AngularJS, RTOS, ESP-IDF, Linux

# **BUFO INNOVATIONS PVT. LTD** | IOT APPLICATION DEVELOPER INTERN

December 2021 - January 2022 | Kolkata, West Bengal

- Developed code, assembled hardware prototype, and designed schematics for an IoT Gateway linking to PLCs using Modbus RS-485 for monitoring energy meters and industrial sensors.
- Optimized code using ArduinoJSON to minimize payload size, enabling narrowband communication to an AWS database.

Frameworks used: Arduino, EasyEDA, KiCAD, Linux

## **EDUCATION**

# KALYANI GOVERNMENT ENGINEERING COLLEGE

Kalyani, West Bengal

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION June 2019 - July 2023

Cum. GPA: 9.0 / 10.0

# **SKILLS**

#### PROGRAMMING LANGUAGES

• C • C++ • Python JavaScript • Java Verilog • HTML • CSS

#### **FRAMEWORKS**

• NodeJS • AngularJS • RTOS UART • MQTT • BLE

#### **VERSION CONTROL TOOLS**

• Github • BitBucket

## **EMBEDDED SYSTEMS & TOOLS**

• ESP32 • Raspberry Pi • KiCAD Modbus RS-485 • Embedded Linux

# **CERTIFICATIONS**

Siemens Scholar 2019 SMSCP Level 1 Qualified

# **LANGUAGES**

- English (Fluent)
- Hindi (Fluent)
- Bengali (Native)

## **PROJECTS**

- FAULT DETECTION SYSTEM
   Fault detection of items using openCV and MQTT.
- 8-BIT ALU DESIGN
   Designed and implemented a simple Arithmetic and Logic Unit (ALU) to perform fundamental logical operations for testing and validation.

## LINKS

Github: anubhav666 LinkedIn: Anubhav Dutta