

# Anubhav Dutta

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## EXPERIENCE

### L&T PRECISION ENGINEERING SYSTEMS

SYSTEM DESIGN ENGINEER

Jul 2023 - Present | Pune, Maharashtra

#### Radar Power Systems

- Well-Versed in C/C++ Programming and RTOS using VxWorks.
- Specializing in Radar Power Systems, involving switch-gear selection for individual units, cable routing, harness chart preparation.
- System scheme, general arrangement, system cable routing.
- Experienced in VME (Versa Module Europa) bus-based systems, with expertise in system integration, data handling, and high-performance applications for defense and industrial automation.
- Proficient in designing and programming PLC-based control systems, including ladder logic, structured text, and function block diagrams.

#### Product Life-Cycle Management

- Bill of Material creation, obsolescence management for Power Distribution Units(PDU), Panels and junction boxes.
- Change management like revision control, CAD-Integration for better design implementations, standardization of approval processes.

**Tools used:** 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

## PROJECTS

### SPARKS INTERN | FAULT DETECTION SYSTEM

September 2021 – November 2021

- Fault detection of items using openCV and MQTT.🔗

### BITWISE-8 | 8-BIT ALU DESIGN

Jan 2022 – Feb 2022

- Designed and implemented a simple Arithmetic and Logic Unit (ALU) to perform fundamental logical operations for testing and validation.🔗

## 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)

## LINKS

Github: [anubhav666](#)  
LinkedIn: [Anubhav Dutta](#)