

# Anubhav Dutta

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## 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, reducing system latency by 30%.
- Led low-level firmware debugging efforts, cutting debugging time by 40% using logic analyzers and oscilloscopes.
- Collaborated with a cross-functional teams for optimization, improving system stability by 25%.

#### Radar Power Systems & Hardware Integration

- Specialized in Radar Power Systems, streamlining switchgear and cable routing processes for 3+ defense-grade systems, reducing wiring errors by 60%.
- Designed and deployed VME-bus based systems, increasing data throughput by 50%.
- Automated PLC-based test sequences using ladder logic and FBD, saving 20 man-hours/week.

#### Product Lifecycle Management

- Managed BOMs and obsolescence for 100+ products, improving traceability and reducing change cycle time by 35%.
- Integrated CAD and ENOVIA PLM, enhancing configuration control and cutting design review loops by 25%.

#### 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 webpage using AngularJS and SocketIO, achieving command-response latency under 50ms.
- Designed a joystick-controlled 3-axis frame using ESP32 & Raspberry Pi with RTOS, enabling motion control with 90% accuracy over wireless links.

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

### BUFO INNOVATIONS PVT. LTD

IOT APPLICATION DEVELOPER INTERN

December 2021 – January 2022 | Kolkata, West Bengal

- Built an IoT Gateway interfacing 8+ industrial PLCs over RS-485 Modbus for real-time sensor data acquisition.
- Reduced data payload size by 60% using ArduinoJSON, enabling reliable NB-IoT communication to AWS with minimal bandwidth usage.

**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

- **CleanUrge MCU**   
Wifi-based STM32 system for smart bins
- **Fault Detector**   
HSV-based OpenCV + MQTT system to detect color-defects
- **MicroServoBot**   
I2C-based servo bot on Arduino UNO that replicates recorded movements for automation

## LINKS

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