Anubhav Dutta

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EXPERIENCE

L&T Precision Engineering Systems — Pune, Maharashtra
System Design Engineer — Jul 2023 – Jul 2025

- **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 — Kolkata, West Bengal
Assistant Software Engineer Intern — Jan 2022 – Mar 2022

- **Remote 3-axis OCT**:
  - 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. — Kolkata, West Bengal
IoT Application Developer Intern — Dec 2021 – Jan 2022

- **IoT Gateway Development**:
  - 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
B.Tech in Electronics and Communication — June 2019 – July 2023

- **GPA**: 9.0 / 10.0

SKILLS

- **Languages**: C, C++, C#, Python, Java, JavaScript, HTML, CSS, Verilog
- **Frameworks**: NodeJS, AngularJS, RTOS, UART, MQTT, BLE
- **Version Control**: GitHub, BitBucket
- **Embedded Tools**: ESP32, Raspberry Pi, Modbus RS-485, Embedded Linux, KiCAD

PROJECTS

- **SerialSense**: Standalone .NET WinForms desktop app for monitoring and interacting with serial devices with selectable port/baudrate & serial settings. ⚲
- **CleanUrgeMCU**: WiFi-based STM32 smart bin system. ⚲
- **Fault Detector**: HSV + OpenCV + MQTT system for defect detection. ⚲
- **MicroServoBot**: I2C servo bot replicating motions. ⚲

CERTIFICATIONS & SCHOLARSHIPS

- **Siemens Scholar**: Awarded in 2019
- **SMSCP Level 1**: Siemens Mechatronic Systems Certification Program

LANGUAGES

- **English**: Fluent
- **Hindi**: Fluent
- **Bengali**: Native