

# **ABHISHEK PANDIT**

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## **CAREER SUMMARY**

Embedded Software Engineer with 6+ years of experience in C,C++ & Python development, avionics software, and safety-critical systems. Expertise in requirement analysis, control system design, and real-time software development for DO-178C-compliant aerospace applications. Proficient in embedded development using C for avionics software.

## **PROFESSIONAL EXPERIENCE**

**TATA CONSULTANCY SERVICES**

*Senior Designer*

**Bengaluru, Karnataka**

**March 2024-present**

**Client: Rolls Royce LLC**

- Spearheaded **requirement engineering**, ensuring system requirements align with FADEC control system specifications.
- Developed **Simulink models** for engine control and **generated C code using Embedded Coder**, ensuring high-performance execution.
- Conducted **Model-in-the-Loop (MIL) and Processor-in-the-Loop (PIL) testing**, achieving **MCDC coverage** for software compliance.
- Performed **static code verification using Polyspace** to meet DO-178C Level A safety standards.
- Collaborated with global teams to troubleshoot **complex system testing issues** and integrate control system modules.

**L&T Technology Services**

*Senior Engineer*

**Bengaluru, Karnataka**

**May 22 - March 24**

**Client: Thales**

**Project : TCTS (VOBC- Vehicle on board control)**

**Roles & Responsibilities:**

- Unit and Regression testing using VectorCAST 2019sp3 tool
- Writing test cases for unit testing.
- VectorCAST test environment creation and test case execution.
- Structural coverage analysis of the Statement, Branch and MC/DC.
- Writing notes for test cases in the VectorCAST tool.
- Merging and reviewing test cases.
- Executing Test cases in VectorCast.
- Generating test reports.

**Project : FINCH**

**Roles & Responsibilities:**

- Configuration of VectorCAST 2019sp3 tool in Ubuntu 18.04
- Technical Support to team
- Distribution of work in Team.
- Team Handling
- Unit and Regression testing using VectorCAST 2019sp3 tool
- Writing test cases for unit testing.
- VectorCAST test environment creation and test case execution.
- Structural coverage analysis of the Statement, Branch and MC/DC.
- Writing notes for test cases in the VectorCAST tool.
- Merging and reviewing test cases.
- Executing Test cases in VectorCast.
- Generating test reports.

## **Project : Platform Software**

### **Roles & Responsibilities:**

- Configuration of VectorCAST 2019sp3 tool in Ubuntu 18.04
- Technical Support to team
- Distribution of work in Team.
- Team Handling
- Unit and Regression testing using VectorCAST 2019sp3 tool
- Writing test cases for unit testing.
- VectorCAST test environment creation and test case execution.
- Structural coverage analysis of the Statement, Branch and MC/DC.
- Writing notes for test cases in the VectorCAST tool.
- Merging and reviewing test cases.
- Executing Test cases in VectorCast.
- Generating test reports.

**AhamCo Services Private Limited**

***Iot & Hardware Engineer***

***Project: Universal Master Mote***

### **Roles & Responsibilities:**

- Design & Development of Iot Device
- Design and development of Firmware including API
- MDASH integration for FOTA Update

**Kolkata, India**

***April 22 - May 22***

## **EDUCATION**

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**NARULA INSTITUTE OF TECHNOLOGY**

***Bachelor of Technology in Electronics & Communication Engineering***

**KOLKATA, WEST BENGAL**

**2014-2018**

**SURAJ MANDAL INTER COLLEGE**

***12th Science***

**GODDA, JHARKHAND**

**2012-2013**

## **SKILLS & TECHNOLOGIES**

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- **Programming Languages:** C++ , C
- **Model-Based Development:** MATLAB/Simulink, Embedded Coder, SCADE Suite
- **Embedded Systems & RTOS:** DO-178C, ARINC 429, MIL-STD-1553B
- **Software Development Lifecycle:** Requirement Analysis, Design (UML, HOOD, Simulink), Verification (MIL, PIL, MCDC)
- **Tools & Frameworks:** Polyspace, Simulink Code Inspector, Azure DevOps, Git, Visual Studio