CURRICULUM VITAE

SAGAR. G. POWAR
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CAREER OBJECTIVE

To be in an intellectually and professionally challenging work environment where I can enhance my skill and knowledge by continuous learning and by being part of a team that dynamically works towards the growth of the organization

PROFESSIONAL SUMMARY

- 2.9 Year of industry experience in **Real-Time Safety Critical Embedded software** in **Avionics/Aerospace** Domain
- Currently Working in **Safran Engineering Services, Bangalore** as a **Software Engineer** (From Aug 2021 to till Date)
- Proficient in C and Embedded C programming languages
- Experience as Embedded Software Developer
- Experience in **V&V** (Verification and Validation), Unit/Module testing ,Requirement Based Testing, Module level test.
- Hands-on experience with **Software Development Life Cycle** (SDLC)
- Experience in Development and review of **DO-178B/C** Certification Documents such as **PSAC, SDVP, SCMP, SRD, SDD** etc.
- Experienced with protocols such as CAN, SPI, I2C,UART and ARINC.
- Proficient with tools like CCS (Code Composer Studio), MPLAB IDE, IBM RTRT, Python, PyCharm, Understand C, Microsoft Visio.
- Hands on experience in **Configuration Management tools** like Windchill PTC, IBM Synergy, Tortoise SVN and DOORS.
- Experience in **Python scripting** language
- Involved in customers interaction in weekly status meeting

Project Summary

Project #1: FALCON-6X Power Distribution System

Client : Dassault Aviation
Activity **:** V&V
Tools : MPLAB, IBM Synergy, Tortoise SVN, Design Editor, IBM RTRT
Language : Embedded C
Team Size : 8 People
Duration : Aug 2021 to July 2022

Description:
The Falcon 6X aircraft has two main distribution systems: the Primary Distribution System (PDS) and the Secondary Distribution System (SDS).

- The PDS comprises LH and RH Primary Power Distribution Boxes (PPDBs) housing terminal blocks, bus bars, power components, and control cards.
- It manages electrical generation and distribution for various aircraft components, including starters, converters, batteries, and more.
- The PDS has LH and RH sections for 115 Vac and 28Vdc networks, engine start controls, and circuit breakers.
- The SDS includes LH and RH Secondary Power Distribution Boxes (SPDBs) placed in the cockpit.
- These contain terminal blocks, bus bars, relays, and circuit breakers, serving front secondary distribution functions and featuring LRU panels for component identification.

Role & Responsibility:

- ✓ Writing Test Cases, Test Procedure based on requirements and execute in RTRT
- ✓ Creating Module based test cases and Procedure to verify low level requirements
- ✓ Involved in Requirement based testing, Unit Testing, MC/DC
- ✓ Generating Test Report and Coverage Report to identify problem in Functionality
- ✓ Analysis of High Level Requirements and Tracing to LLR and Code
- ✓ Involved in Review and Analysis of Low Level Requirement, Test Case and Test Result
- ✓ Configuring files in IBM Synergy and Tortoise SVN

Project #2: SSPC-NG A350

Client : Airbus
Activity : Software Development and Testing
Language : C, Embedded C
Scripting Language: Python
Tools : Code Composer Studio, Understand C, Windchill PTC, Tortoise SVN, RTRT, PTU Gen
Duration : Sep 2022 to till date

Description:

The aircraft's electrical distribution system has crucial functions: interfacing power generation with users, network configuration, fault detection, wire protection, monitoring, energy optimization, crew status updates, and maintenance data.
It includes two Electrical Power Distribution Centers (EPDCs) managing primary and secondary loads, 12 Secondary Power Distribution Boxes (SPDBs), and functions like Electrical Network Management, Load Management, Circuit-breaker monitoring, Power Distribution Maintenance, and Electrical System BITE Function.
These components work together to ensure efficient and reliable electrical distribution.

Role &Responsibility:

- ✓ Analysis of High Level Requirement and Traceability of HLR to LLR
- ✓ Alignment of code based on GT44 Coding Standard
- ✓ Development of Low Level Requirement and Design Architecture in WINDCHILL PTC
- ✓ Configuring files in WINDCHILL PTC
- ✓ Authoring of Data Dictionary using Python and Activation Scenario
- ✓ Writing Test Cases, Test Procedure based on requirements and execute in RTRT
- ✓ Generating Test Procedure using PTU Gen.
- ✓ Generating Test Report and Coverage Report to identify problem in Functionality
- ✓ Creating Problem Report for any issue and reporting to Development Team

EDUCATIONAL QUALIFICATION

BACHELORE OF ENGINEERING (BE) | ELECTRONICS AND TELECOMMUNICATION
Bharati Vidyapeeth College of Engg, KOLHAPUR affiliated with Shivaji University
with First class and Distinction.
Year of Studies: 2016 - 2020
Percentage: 78.5%

HIGHER SECONDARY CERTIFICATION (HSC)
MAHAVEER MAHAVIDHYALAYA, KOLHAPUR
Year Of Studies:2014-2016
Percentage: 64.31 %

SECONDARY SCHOOL CERTIFICATION (SSC)
SAHYADRI HIGH_SCHOOL, DHAMOD
Year of Passing: 2014
Percentage: 84.68 %

PROFESSIONAL TRAINING

VECTOR INDIA | BANGLORE
DEC 2020 to July 2021 .
Completed Advance Embedded training from vector India Pvt. Ltd. Bangalore branch.
Completed Courses: C Programming, C++ Programming, Embedded C,Data Structures, 8051 microcontroller

ACHIEVEMENTS | PARTICIPATION

- Quarterly Awarded as a HIGHFLYER of JAN 2023.
- Best Squadron – PLATINUM (Issued by Managing Director, Safran Engineer services India · Dec 2023)
- Innovation and Automated Tools done using **Python Scripting language**.
- Involved in the people interactions for problem solving.

PERSONAL DETAILS

Date of Birth	: 16th OCT 1997
Language Known(R/W/S)	: English, Hindi and Marathi
Strengths	: Passionate about learning New things
Hobbies	: Playing Cricket, Swimming, Badminton.
Current address	: BTM 2nd Stage, Bangalore, Karnataka

DECLARATION

I hereby declare that the information furnished above is correct and true to the best of my knowledge.

Date :
Place : **SAGAR G.POWAR**