

**BALACHANDAR.B**

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Current Location: Bangalore, Karnataka

**CAREER OBJECTIVE:**

Looking forward to work in a challenging environment where I can provide value addition to the organization with my experience and also update myself in all aspects.

**PROFILE SUMMARY:**

- Having 3 years of experience in Automation testing in **Aerospace domain (Verification and Validation of Flight Management System)**.
- Having Good knowledge on **DO-178B** guidelines, SCA and coding standards
- Hands on experience on System testing, Black box and white Box testing Methodologies.
- Involved in **Verification and Validation** of FMS systems like FGFP, ICPF and FMF.
- Involved in preparation of Verification Cases and Procedures.
- Hands on experience on Structural Coverage Analysis and Failure Analysis activity for multiple programs in FMS project.
- Python Script based Automation Testing has been used for to verify High Level Requirements with DO178B standards (Black Box Testing).
- Proficient in Test planning, Test Case development, Requirement based Functional Testing, Unit Testing, Integration Testing, Test execution and Failure Analysis of Level B software.
- Good knowledge in **Rational Clear Quest, DOORS, PREP, TORTOISE SVN, VISTA Simulator, JAMMA and JIRA**.
- Proficient in Unit Testing using **Vector-Cast** Tool in LTP for Flight Planning project. Performed as Defect Prevention Analyst and Project Quality Assurance in all my projects.
- Qualified Reviewer for LLR and LLT.
- Good leadership skills with ability to motivate teams to increase productivity.
- Worked on Agile Methodology (Scrum)
- Having experience in attending daily status call with Clients.

## **EXPERIENCE SUMMARY :**

<b>Sl. No.</b>	<b>Name of the company</b>	<b>Designation</b>	<b>Start to End Date</b>
1	HCL Technologies Ltd., Bangalore (Presently working in Client location Rockwell Collins, USA)	Software Engineer	January 2014 – Till Date

## **PROFESSIONAL EXPERIENCE:**

### **Flight Management System (FMS) Verification**

Client : Rockwell Collins, USA  
Tools : VISTA, Vector Cast, DOORS, PREP, ClearQuest, Tortoise SVN,  
Understand ADA, JAMA, JIRA, PS Pad  
Duration : (Jan 2014 – Till Date)  
Language : Python, ADA  
Team : FGFP, ICPF, Flight Planning  
Team Size : 15-25  
Role : Software engineer

### **Description**

FGFP (FMS Graphical Flight planning) module which is developed using ADA language and communicates via the ARINC 661 protocol to the displays. FGFP module receives input from the FMF module and sends output to AGS (ARINC GRAPHIC SERVER). It consists of various blocks such as dialog boxes, MENU, Menu control, VSD etc. Requirement based verification of the FGFP on Host/Target environment is done using VISTA simulation tool. Verification and Validation is done in automated python scripts.

ICPF (Integrated CDU page function) module which is developed using ADA language and communicates via the ARINC 661 protocol to the displays. ICPF is a replacement for the legacy CDU/CPF combination. Requirement based verification of the ICPF on Host environment is done using VISTA simulation tool. Verification and Validation is done in automated python scripts.

Flight planning is the process of producing a flight plan to describe a proposed aircraft flight. It involves two safety-critical aspects: fuel calculation, to ensure that the aircraft can safely reach the destination, and compliance with air traffic control requirements, to minimize the risk of midair collision.

The verification activities will be performed in accordance with RCI provided standards, procedures, and plans to will meet the requirements of DO178B- Level B.

## Roles & Responsibilities

- Analysis of Low level requirements (DOORS) of ICPF software application.
- Writing low level requirements and Creation of test cases and test procedures and execute on the **Vector cast** to check the coverage
- As part of Requirement based testing, involved in writing python test scripts (test cases and test procedures) for the verification and validation of ICPF software as per the requirement in DOORS.
- Execution of python scripts and generation of the test logs on VISTA
- Analyze and correct the bugs identified during Requirement Based Testing.
- Creating Change Request (CR) against the test failures/ requirements/ code implementation in Clear Quest tool
- Ensuring that the delivered test artifacts confirm to the customer requirements and agreed quality standards by using PREP tool /JAMA reviews
- Structural Code coverage analysis as per RTCA DO-178B standard.

## TECHNICAL SKILLS:

- Programming Languages : Basics of C and ADA
- Scripting Languages : Python
- Compilers/Debuggers : VISTA, Vector Cast, A661 Analyzer
- Code Inspection Tool : Understand ADA
- Configuration Management Tool : Tortoise Sub-version
- Change Management Tool : Rational Clear Quest, JIRA
- Review Tracking Tool : PREP
- Requirement Management Tool : DOORS, JAMA

## EDUCATION PROFILE:

Course/Degree	School/college	Board/ University	Year of passing	Percentage
M.E(Embedded Systems Technology)	Easwari Engineering College	Anna university	2012	<b>8.15% (CGPA)</b>
B.E (ECE)	Cape Institute of Technology	Anna university	2010	<b>73%</b>
Higher Secondary(12 <sup>th</sup> )	Vivekananda Kendra Vidyalaya	State Board	2006	<b>76.33%</b>
Secondary(10 <sup>th</sup> )	Vivekananda Kendra Vidyalaya	Matriculation	2004	<b>75.45%</b>

## **PERSONAL DETAILS:**

- Name : B. BalaChandar
- Father Name : M. BalaMarthandan
- Date of Birth : 26<sup>th</sup>December, 1988
- Nationality : Indian
- Languages known : Tamil, English
- Hobbies : Listening to Music, Cycling
- Strengths

- Dedication towards work
- Both hardworking and smart working