

## **Surendhar Thallapelly**

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### **Professional Summary**

- 1 Has over 2+ years of software development experience in Java Technologies.
- 2 Has extensive experience in development using Java languages on Linux and Windows platforms. Has worked on J2SE, JDBC, Servlets, DataStructures, Algorithms and Multi threaded programming.
- 3 Has used Configuration Management tools such as Hudson, SVN and defect tracking tools like Bugzilla and also has Exposure to LINUX commands.
- 4 Has a good inter-personal and communication skill with team members and users.

### **Academic Profile**

- 1 M.Tech in Computer Science from VIT University, Vellore (2011) with 9.12/10.
- 2 B.Tech in Information Technology from Jyothismathi Institute of Technology (2009) with 72.57%.
- 3 Intermediate in M.P.C from Board of Intermediate (2005) with 87.9%.
- 4 SSC from Board of Secondary School of Education (2003) with 84.17%.

### **Skills**

<b>Operating system</b>	: Windows, Linux
<b>Java Technologies</b>	: Core Java, Servlets, JDBC, JSP, SWING
<b>Data Base</b>	: Oracle 9i, Microsoft Access
<b>Languages</b>	: C, C++
<b>Scripting Languages</b>	: Java Script, Shell Script
<b>Web Technologies</b>	: HTML, XML
<b>Algorithms</b>	: Streaming data Algorithms and Data Structures

### **Professional Experience**

Currently working as Engineer-Software in **Rockwell Collins**, Hyderabad, from May 2011 to till date.

Worked as a Project Trainee in **Honewell Technology Solutions Lab**, Bangalore, from September 2010 to Apr 2011.

## **Professional Accomplishments**

### **Project#1**

**Title** : **Ground Communication Manager – Information Management Onboard**

**Softwares** : **Eclipse, Oracle9i**

**Technologies** : **Core Java, SQL, XML, JAXB**

**Role** : **Team Member**

**Operating System** : **RedHat/openSUSE Linux Operating System**

**Company** : **Rockwell Collins**

#### **Description:**

The Ground Communication Manager is part of Information Management Air-Ground Communication System (IMACS). IMACS is designed to provide Air-Ground Communication using different Communication Means (Wired, WiFi, Cellular and SATCOM etc.,) for different type of Clients PIESD, EFB and Messaging Clients. The IMACS Ground Communication Manager provides the following services for the IMACS system.

- Smart Routing and Bandwidth Management
- EFB Air-Ground Traffic Routing
- Performance logging and Debug Services.
- Cryptographic IPSec Tunnel End Points including IKEv2 Authentication

#### **Responsibilities:**

1. Involved in design and development of GCM module.
2. Bug Fixing.

### **Project#2**

**Title** : **Control Service – Information Management Onboard**

**Softwares** : **Eclipse**

**Technologies** : **Core Java, XML, JAXB, Shell Script**

**Role** : **Team Member**

**Operating System** : **RedHat/openSUSE Linux Operating System**

**Company** : **Rockwell Collins**

**Description:**

Control Service is responsible for launching and monitoring thirty eight Applications in IMO. Applications are divided as Security and Non-Security Applications. Control Service monitors application every 10 sec, if Non Security Application fails it restart application for 3 times. If Security Application fails it do not restart, directly stop watchdog refresher and send request to stop Payload power for respective module. It informs server module about application failure and it also subscribes with server module for flight phase and flight ground condition to start/stop Wireless Link Module.

**Responsibilities:**

1. Design the Module.
2. Involved in development of the Module and Bug Fixing.

**Project#3**

**Title** : **XL10 Variable Speed FCU Plugin – Coach tool**  
**Softwares** : **Eclipse**  
**Technologies** : **Java Swings, JDBC**  
**Role** : **Team Member**  
**Operating** : **Windows XP**  
**System** :  
**Company** : **Honeywell Technology Solutions Lab**

**Description:**

The XL10 (FCU) Plugin controller communicates with other controller nodes, monitoring devices, and engineering tools using a wired twisted pair LonWorks digital data network. The purpose is to change XL10 (FCU) controller to support new FCU (W7754L, W7754R, and W7754V) and automate the process of getting the neuron ID(Address) of each XL10 device to coach tool.

**Responsibilities:**

1. Modify GUI to support Variable Speed FCU controllers.
2. Involved in design and development.
3. Automate the process of getting the neuron ID of each XL10 device.

#### **Project#4**

**Title** : **Distributed Cache Simulator**  
**Softwares** : **Notepad, JDK1.6**  
**Technologies** : **JSP, Servlets, Data Structures**  
**(M Tech Academic Project)**

#### **Description:**

The objective of this project is simulating memory management techniques that are performed on cache like Block Placement, Block Identification, Block Replacement, Update policies. This even evaluates the performance (based on number of hit/miss) of the cache. As Distributed caches are available picking the best cache for Block Placement, Block Identification using Randomized Partitioning algorithm and for searching in cache for Block Replacement, Update policies it uses Bloom Filter Data Structure.

#### **Responsibilities:**

1. Involved in design and development of module.
2. Active participation in teamwork.

#### **Project#5**

**Title** : **Electronic Voting System**  
**Softwares** : **Notepad, JDK1.5**  
**Technologies** : **Core Java, Applets**  
**(B Tech Academic Project)**

#### **Description:**

The purpose of the project is to develop application which allows user for distance voting, avoiding duplicate votes and give quick results by vote counting. The Electronic Voting System does above functionalities by using thumb print of users, only registered users are given access to start Electron Voting System (SHA Algorithm) and System allows only admin can only see the vote count.

#### **Responsibilities:**

1. Involved in design and development of module.
2. Active participation in teamwork.

## **Awards & Recognition**

### **Professional Achievements:**

- 1 Received Token of Appreciation and cash prize for contributions made for S2.0 Information Management Onboard Delivery from Rockwell Collins.
- 2 Got PVI Rating for XL10 Variable Speed FCU Plugin as Delightful (9/10) and Token of Appreciation from Honeywell Technology Solutions Lab.

### **Academic Achievements:**

- 1 Awarded Merit Scholarship for best academic performance for the academic year 2009-2011 by VIT University.
- 2 Published research paper on "An XAML Approach for Building Management System Using WCF"  
<http://www.springerlink.com/content/h6270563862g0653/>
- 3 Secured distinction in **CAMPUS-CONNECT** training program conducted by **Infosys**.
- 4 Stood 4th position in District level best C-programmer contest conducted by **DISC Computers, Karimnagar**.
- 5 Organized Workshop on "Programming for Intel Multicore Architecture".

## **Personal Information**

<b>Name</b>	: Surendhar Thallapelly
<b>Father's Name</b>	: T Sanjeeva Rao
<b>Date of Birth</b>	: 24 <sup>th</sup> , Mar 1988
<b>Marital Status</b>	: Single
<b>Nationality</b>	: Indian
<b>Languages Known</b>	: English, Telugu, and Hindi
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**(Surendhar Thallapelly)**