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Summary

- More than three years of Software Development (IT) in C++, VC++ and Visual Basic.
- Onsite work experience with Equipment vender in Japan.
- Design and Development of COM applications.
- Development and testing of Equipment Control Software (Substrate Management System) in semiconductor automation.
- Worked with SEMI standards and scenarios alongside with their implementations.
- Worked in implementation of ISO Procedures
- Design of Medical Data warehouse
- Data mining on Medical and Business Data warehouses

Currently working as Senior Developer Engineer in **Wins Infotek** Technopark, Thiruvananthapuram a subsidiary of **Wins Ltd, Japan**, which is advanced automation solutions provider and Equipment vender to semiconductor fabs worldwide.

Previous work experience:

- Involved in various data modeling and data mining projects.
- Software development for data mining using Visual C++, Visual Basic, OWC
- SQL Server 2000, Analysis Services 2000.

Skill Set

	C, C++, VC++, C#, VB. 6.0,
Languages	With knowledge in MFC, COM, Win 32 (SDK), STL
Operating System	Server/ Desktop OS : Windows 9x/2000/XP/Linux
Developer Tools	Visual Studio
Toolkits	Microsoft Visual Source Safe 6.0, Debug View
Web Technologies	HTML, ASP, VBSCRIPT.
Design, Technologies and Planning tools	MS Office, OOAD, UML.

Professional Experience

1. March 02 2006 to current date
Senior Developer Engineer (2008 April to Current Date)
Developer Engineer (2006 March to 2008 March)
Wins Infotek (P) Ltd (a subsidiary Wins Ltd Japan)
Technopark, Thiruvananthapuram.
 - ✓ Design and development of generic hivertek motion control board driver.
 - ✓ Design and development of Equipment Control Software (ECS) and hardware integration
 - ✓ User mode driver development for the devices which are used in SEMI domain equipments
 - ✓ PLC protocol implementation.
 - ✓ Design and development of Emulators for various projects
2. January 2005 to February 2006
Software Engineer
M-Squared Software's and Export PVT Ltd.
Technopark, Thiruvananthapuram.
 - ✓ Involved in various data modeling and data mining projects.
 - ✓ Software development for data mining using Visual C++, Visual Basic, OWC
 - ✓ SQL Server 2000, Analysis Services 2000.

Projects Handled

1. Automatic Wafer Inspection System

ECS development for Automatic Wafer Inspection System. This equipment is used for both automatic and manual inspection of wafer. The complete framework is based on COM architecture and implemented in VC++. System deploys Image processing algorithms for Automatic inspection.

Responsibilities : Involved in the architecture design of ECS and E95 using wins framework. Developed COM based subsystem which controls PLC based on Melsec Protocol

2. PLC based Wafer Sorting System

ECS development for Wafer Sorter System. This equipment is used to sort and transfer wafers between slotted cassettes. The complete framework is based on COM architecture and implemented in VC++.

Responsibilities : Involved in the architecture design of ECS and E95 using wins framework. Developed COM based subsystem which controls the Keyence KV5000 PLC based system. Also developed Emulator for the system.

3. Wafer Inspection System – II

ECS development for Wafer Inspection System. This equipment is used for defect identification verification and tracking of finished wafers. The complete framework is based on COM architecture and implemented in VC++.

Responsibilities : Involved in the architecture design of ECS and E95 using wins framework.

1. Developed COM based subsystem which controls Robots, aligner Stage, Inspection stage and the various mapping functionalities used in GUI.

2. Drivers developed for NJR sorter is also used in this system
3. Developed Teach Pendant for 5 Axis Robot.
4. Developed Emulator for the system.

4. Sorter using Wins developed Robotic Controller

Wafer Sorting system using Wins developed Robotic Controller.

Responsibilities :

1. Developed generic driver for 8-Axis Hivertek Motion control board which is used in the development of Robotic controller, Align Stage driver, Inspection Stage Driver.
2. Developed user mode Wafer Align Stage Driver
3. Developed user mode Inspection Stage Driver.
4. Developed user mode Keyence Camera Driver
5. Developed Emulator for the system.

5. WP300 - 1

ECS development for Wafer stacking and UN-staking Equipment. This equipment is used to transfer wafers to and from shipping cassette to slotted cassettes. The complete framework is based on COM architecture and implemented in C++.

Responsibilities :

Part of the team which developed COM based subsystem for Stacking-Unstacking functionalities which controls and coordinates 2 FOUP's and Keyence KV5000 PLC which controls the various operations.
Developed Emulator for the System.

6. CVD System

ECS development for Process control System.

Responsibilities : Developed Emulator for the Melsec based PLC.
Involved in the onsite implementation of the project.

7. Wafer Inspection System - I

ECS development for Wafer Inspection System. This equipment is used for Transfer of wafers as well as defect identification verification and tracking of finished wafers.

Responsibilities :

1. Developed Teach Pendant for Yamaha Robot
2. Developed Generic Hivertek Driver for 4 Axis Hivertek Motion control Board and DIO.
3. User mode driver for
 - 3.1. Robot Hand driven by Hivertek motion control board.
 - 3.2. Yamaha Robot
4. User mode Driver for Image Projector.
5. Joystick controller using DirectInput
6. Involved in the GUI development of Inspection system
7. Developed Emulator for the system

8. AP System

ECS development for atmospheric plasma based Etcher. AP System, Etching is been done at atmospheric conditions.

Responsibilities :

1. Involved in the GUI development
2. Developed Emulator for DeviceNet for IO emulation

9. Shiva X-Diff Engine, a reusable library that can be used to compare one or more Input XML files, developed in C++ using STL and SAX library.

Responsibilities :
1. Involved in the development of the system

Predictive Data Mining: Horse Betting This is aimed to predict the winning horses in the races and how to plot the money in the races. This calculates possible return on each of the betting options and selects the bet tickets. Consist of several modules which include development of an analysis tool, implementation of the prediction algorithm etc.

Responsibilities : Team member involved in analysis, designing and coding.

Duration : Oct 2005 to Feb 2006

Technologies Used : VC++, SQL Server, OLAP.

Medical Data Mining This project was aimed at retrieving valid information clinical information using Data Mining Techniques and Visualizing the result.

Responsibilities : Team member involved in Designing and coding.

Duration : May 2005 to June 2005

Technologies Used : VC++, VB, OWC, SQL Server, OLAP.

Business Intelligence This was a project aimed to assist retail market with their decision making by mining transaction database. CRM, Market analysis etc covered in this project

Responsibilities : Analysis, design.

Duration : Jan 2005 to Aug 2005

Technologies Used : SQL Server.

Cargo Management Software aimed at managing all manually done jobs of Cochin International Airport PVT Ltd (CIAL) Cargo. The software covers all aspects of cargo management both Imports and Exports

Responsibilities : Design and coding

Technologies Used : Visual Basic 6, SQL Server.

The Ultimate This was the software created for Santhigiri Publications, Thiruvananthapuram for the purpose of handling subscribers' data, stock details and daily sales.

Responsibilities : Design and coding

Technologies Used : Visual Basic 6, SQL Server.

OjusSoft Software that manages routine lab works of Ojus healthcare, Technopark

Responsibilities : Design and coding

Technologies Used : Visual Basic 6, SQL Server.

KeraPol

This was the software created for Kerala Police, Pattom, Thiruvananthapuram, for the purpose of handling Inventory.

Responsibilities : Design and coding

Technologies Used : Visual Basic 6, SQL Server.

Academic Qualification

Post Graduation	Masters in Computer Applications (MCA) University : Anna University College : N.I College of Engineering, Thuckalay, Tamil Nadu
Graduation	Bachelor of Science - Computer University : Kerala University College : National College, Ambalathara, Trivandrum, Kerala
Diploma	Diploma in Global software engineering Institution : Sprint Technologies , Trivandrum, Kerala

Personal Details

Date of Birth	18-03-1982
Sex	Male
Nationality	Indian
Martial Status	Single
Passport Number	F6312359
Language Capability	English, Malayalam, Hindi.

Declaration

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

Smith.S.Raj