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| **Zriya Solutions** |  |

**PRASHANT D BHOYAR**

**PROFESSIONAL SUMMARY**

I introduce myself as a Lead Engineer having Total work experience of 14 + years. I have strength in assembly language, c, c++, java, c# language. I did my bachelor’s Degree in Electronics and Telecommunication Engineering from Pandav college of Engineering Nagpur, affiliated to RTM Nagpur University. I am working with g&d pune as lead engineer from Oct 2017. Earlier worked in Emerson as senior software engineer from Aug 2011 to Oct 2017 SCADA Tools and Driver Development for windows operating system. I worked in Unique Automation Pvt Ltd as a software Engineer since June 2007 to Aug 2011.

**Educational Qualification** : BE ELECTRONICS AND TELECOMMUNICATION (63%)

**Skill Set** : Assembly, C, C++, C#, Core Java, XML.

**Scripting language** : perl, python,(C,VC++) based scripting tool for Payment transition.

# Database : Sql server database and Embedded Sql

**Web** : HTML, JavaScript

**Device Driver Protocol** : TCP/IP ,USB, RS485, Modus, DNP, CAN, Operating system : Windows, Linux, Threadx.

# Atlassion Tools : GIT, bitbucket, Jira, Clear case, Clear Quest and Perforce

# (Version control tools) as process

# Application Knowledge : Design and Development of software system and

User interface, Customized software Tools and windows driver development, porting codes.

Upgrading System with client’s requirements.

**COMPANY PROFILE**

G & D is product-based company in which we develop and maintain testing tools based on c, Java, c#, c++, perl scripts. This Tools are used to test smart card Java OS and application on Java OS. Atlassion tools git, bitcucket, jira used in development.

Emerson is product based company in which we develop SCADA Tool[UI] for Oil and gas industries and driver to communicate with RTUs. This Tools are used to configure, acquire data from RTUs and control it. RTU is Remote terminal unit to collect the flowrate, temperature, pressure of oil etc.

Unique Automation Pvt Ltd is a Nagpur based company dealing in development hardware and customized Data Acquisition software projects. The clients of the company are Indorama Synthetics (I) Ltd, Woolworth (I) Ltd, JBF Industries, Morarji Brimhana, RFarrays Pvt. Ltd., Central India Scales pvt ltd, M.M. Instruments Pvt Ltd,Technocratzs Pvt Ltd, SSI Technical Services( Delhi), Raymonds India PVT LTD.

**Projects done:**

* I have Design, develop and unit test Scada (Supervisory control and data acquisition) tools and Driver (Developed in C++ and C#) to communicate with different Rtus.
  + XML used for the static configuration.
  + Embeded Sql server used to save data.
  + UML diagram for designing.
  + GIT, bitbucket,Jira,Clear case, Clear Quest and Perforce (Version control tools)as process.
  + Use agile methodology for software development.
* Flow metering system for oil and gas industry to monitor, configure, control different parameter of oil and gas.
* Energy metering system for RF Arrays Using ade7758 displaying voltage, current, Frequency, power factor, KWH, KW of corresponding feeder.
* DCS Sms system for Indorama Synthetics (I) Ltd Nigeria used to send sms for different IOs and maintaining delivery report of each sms.
* Temperature indicator and controller systems.
* Data logger for RTU of Energy Measurement system.
* Weight measurement and UI.
* DAQ for Hot Furnace (500 Degree to 1600 Degree);
* WinCE application for Water meter Data logger.
* Display Systems and User Interface.
* Wireless DAQ for Production of Denim cotton for client Raymond India PVT

**Project Name** **: Test System For Payment Transaction**

**Client** : G&D Pune

**Position** : programmer and Maintenance

**Programming Tool** : Visual Studio VC++.

**Project Background:**

G&D develop smartcards for Payment domain.

**Aim of the project:**

Development and maintenance of Test system to test different payment transaction for application like MasterCard, Visa ,Rupay etc. in smart card.

**Project description:**

**Hardware**

1. Smartcard chip (Samsung,Infenion).
2. Smartcard reader.

**My role**

1] Review Requirement, design and analysis, Bug fixing, Code Migration,

2] Coding Unit testing in C#, C++, xml.

3] software runs on Windows Machine.

**Project Name** **: Open Enterprise Scada System**

**Client** : Emerson RAS (Remote Automation solution)

**Position** : programmer

**Programming Tool** : C# in VS 2010 IDE.

**Project Background:**

RAS have different flowComputors like Roc, FB, Control wave for oil and gas parameter monitoring, configuration and computations.

**Aim of the project:**

Business unit need to develop Supervisory Control and Data Acquisition system for all Devices. So Operator and site Engineer can configure and view status of all devices from remote location.

**Project description:**

**Hardware**

1] Flow Computer RTU (Roc, FB,DNP, Control wave). 2] RS485, TCP/IP with laptop and Tab communication.

**My role**

1] Review Requirement, design and analysis, Bug fixing

2] Coding Unit testing in C#, C++, xml.

3] software runs on Windows Machine.

**Project Name** **: Technicians Tools System**

**Client** : Emerson RAS (Remote Automation solution)

**Position** : programmer

**Programming Tool** : C# in VS 2010 IDE.

**Project Background:**

RAS have different flowcomputors like Roc, FB, Control wave for oil and gas parameter monitoring, configuration and computations.

**Aim of the project:**

Business unit need to develop Technician tool for operator and site engineer for commissioning for all flowcomputors.So Operator and site Engineer can perform calibration and configuration of all devices in field.

**Project description**

**Hardware**

1] Next generation Flow Computer RTU (Roc, FB, Control wave).

2] RS485, TCP/IP interface with PC communication.

3] software run on Windows lap top and tab.

**My role**

1] Review Requirement, design and analysis, Bug fixing

2] Coding Unit testing in C#, C++, xml.

**Project Name** **: Advance Test Validation Tools System**

**Client** : Emerson RAS (Remote Automation solution)

**Position** : programmer

**Programming Tool** : C# in VS 2010 IDE.

**Project Background:**

RAS have Roc, FB, Control wave for oil and gas parameter monitoring, configuration and computations.

Aim of the project:

Client have this testing tool for Tester to validate and test firmware parameters of devices .They want this tools should support next generation protocol and devices.

**Project description:**

**Hardware**

1] Next generation Flow Computer RTU (Roc, FB, DNP, Control wave).

2] RS485, TCP/IP interface with PC communication.

3] software runs on Windows machine.

**My role**

1] Review Requirement, design and analysis, Upgrade.

2] Coding Unit testing in C#, C++, xml.

**Project Name** **: Wireless DAQ for Production of Denim cotton**

**Client** : Raymond India PVT LTD.

**Position** : programmer

**Programming Tool** : Visual Studio C#

**Project Background:**

Raymond India PVT LTD is involved in manufacturing of Denim cotton .The Company wanted to solution for monitoring LCB machine production on Shift wise for 24 hour.

**Aim of the project:**

The aim of the project was to calculate production of each LCB machine, total run time of machine, start and stop event, machines speed per shift and these data into excel sheet on shift basis and system will run for 24 hours.

**Project description:**

**Hardware**

1] At89s8253 (slave controller), Ramtron RS7430 Master Microcontroller

2] Rs232 port for PC communication.

3] 2.4 GHz ZiGbee wireless interface.

4] RTC on master controller card.

**My role**

1] Design and analysis

2] Prototype testing

3] Writing program User Interface C#

**Project Name** : **Energy metering system For BEST Bombay**

**Client** : RFarrays Pvt Ltd.

**Position** : programmer

**Programming Tool** : Visual Studio 2010 VC++

**Project Background:**

RFarrays Company is involved in manufacturing of RF modules for long distance communication. The company wanted to develop a project for a customer at Mumbai to monitor the feeder information. System made for 9 feeders and 999 sub stations can be club with PC.

**Aim of the project:**

Development of DAQ (data acquisition software) to monitor varies parameters of particular feeder such as voltage, current, frequency, power factor, KWH and KW.

**Project description:**

**Hardware**

1] P89C51RD2, Ramtron RS7430 microcontroller

2] LCD display and four Keys for calibration

3] Rs232 port for PC communication.

**My role**

1] Design and analysis

2] Prototype testing

3] Writing program User Interface VC++

**Project Name** : **Energy metering system for Vizag**

**Client** : RFarrays Pvt Ltd.

**Position** : programmer

**Programming Tool** : Keil C cross compiler,

**Project Background:**

RFarrays Company is involved in manufacturing of RF modules for long distance communication. The company wanted to develop a project for a customer at Vizag to monitor the feeder information. System made for feeder unit, PF unit and transformer unit in sub stations can be club with PC through data logger.

**Aim of the project:**

The aim of the project was to monitor and control varies parameters of particular feeder such as voltage, current, frequency, power factor, KWH and KW.

**Project description**

**Hardware**

1] P89C51RD2 (master), AT89s8253 (slave) microcontroller.

2] LCD display and four Keys for calibration.

3] Rs232 port for PC communication.

**My role**

1] Design and analysis

2] Prototype testing

3] Writing program User Interface in VC++

**Project Name** : **Water metering system**

**Client** : RFarrays Pvt Ltd.

**Position** : programmer

**Programming Tool** : Visual Studio C#

**Project Background:**

RFarrays Company is involved in manufacturing of RF modules for long distance communication. The company wanted to develop a project for a customer government of India .System made for to read data from water meter to remote areas by clubbing transmitter module to meter and receiver module with Data logger at remote area.

**Aim of the project:**

The aim of the project was to monitor and save Water meter reading of customer.

**Project description**

**Hardware**

1] PIC 24FJ microcontroller with on chip rtc.

2] ADF 7020 as Wireless transceiver IC.

1. Rs232 port for Handheld Device.
2. ARM9 board with wince 6 to log data.

**My role**

1] Design and analysis

2] Prototype testing

3] Writing User Interface for WinCE in C# for dataloger.

**Project Name** : DCS SMS system

**Client** : Indorama Synthetics (I) Ltd.

**Position** : programmer

**Programming Tool** : Visual Studio 10 with VC++

**Project Background:**

Indorama Synthetics (I) Ltd. Company have oil refinery plant in Nigeria. The company wanted to develop a system to send sms to responsible person if any event occurred in plant. System made for to send sms for particular event to group of people and save delivery report .They can watch these reports on PC through UI software made in VC++.

**Aim of the project:**

Development of User Interface to monitor Digital IOs and save delivery report after sending sms.

**Project description:**

**Hardware**

1. DS89C450 (Master and Modem), P89C51RD2 (slave unit).
2. LCD display and PS2 keyboard interface to set parameter. 3] Rs232 port for PC communication.

**My role:**

1] Design and analysis

2] Prototype testing

3] Writing program User Interface in VC++;

**PERSONAL DETAILS**

**Date of Birth** : 11 Dec 1983

**Marital Status** : Single

**Nationality** : Indian

**Languages Known** : Marathi, English, and Hindi