

# Jajwalya Waghmare

EMBEDDED ENGINEER

A-902, ARC Glory, Mahadev nagar, Pune (India)

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## Summary

I am currently working as a 'Senior Software Engineer' at IFM Engineering Pvt Limited, India. I have more than 12 years of experience specializing in Embedded product development and embedded linux application development. I am Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

## Education

### Oasis Technologies Private Limited

Pune, India

ADVANCED EMBEDDED SYSTEM DESIGN

Sep. 2005 - Feb. 2006

- RTOS concepts and programming
- Embedded C Programming
- ARM Architecture
- Microcontroller Programming
- Multi-threading and Multi-processing concepts
- Linux Application Programming

### University of Pune

Pune, India

BACHLOR OF ENGINEERING IN ELECTRONIC

Oct. 2000 - March. 2003

- Embedded System
- Digital and Analog Circuit Designing
- Analog and Digital Communication
- Software Defined Networking
- Power Electronics

### MSBTE(Maharashtra State Board of Technical Education)

Nagpur, India

DIPLOMA OF ENGINEERING IN INDUSTRIAL ELECTRONICS

Aug. 2000 - May. 2000

- Microcontroller Architecture
- Digital and Analog Electronics
- Instrumentation and Controls
- Industrial Electronics

## Work Experience

### IFM Engineering Private Limited

Pune, India

SENIOR SOFTWARE ENGINEER

Apr. 2013 - PRESENT

- Integrating IO-Link industrial communication stack into PIC mc based Magnetic Sensor.
- Developed a Setup Application in QT using QML and C++ for embedded Linux device PDM(Process Dialog Module).
- Developed Backup and Restore service using Dbus in C language for embedded Linux device.
- Developed ROS(Real Time OS) based wall following robot as POC(Proof of concept).
- Tools :- GCC, GDB, Eclipse, MAPLAB X IDE, XC8 Compiler, Doxygen, SVN etc.
- Protocol :- CAN, I2C, Dbus, RS232, IO-Link, Ethernet etc.
- Platform :- Power PC, PIC18.

### Igate Patni Limited

Pune, India

TECHNICAL LEAD

Feb. 2012 - March. 2013

- Developed application for a medical device which a respiratory device for infant at GE Health Care Company.
- Pre and Post silicon chip validation of LSI Company.
- Tools :- Logic Analyser, Multi IDE, Green Hills Probe JTAG, SAS analyser.
- Protocol :- SAS, RS232.
- Platform :- Power PC, Renesas microcontroller.

### Edex Technology Private Limited

Pune, India

SENIOR SOFTWARE EMBEDDED ENGINEER

Aug. 2009 - Jan. 2012

- Developed Attendance application in C language for Embedded Linux device with Biometric.
- Developed Attendance application with Geo tagging feature for Embedded Linux device with Biometric.
- Tools :- GCC, GDB, SVN etc.
- Protocol :- SQL, HTTP, RS232, I2C, XML.
- Platform :- ATMEL at91rm9260ek/at91rm9263 (ARM9ejs).

### Oasis Technology Private Limited

Pune, India

SOFTWARE ENGINEER

Aug. 2007 - Jul. 2009

- Developed Metering Linux application in C language to record water flow data and update the same on web.
- Designed hardware and Developed software for RF based remote control.
- Developed application using u-cos RTOS for ARM7 to fetch and process ADC data and control o/p LED.
- UART interface of GSM, GPRS, FINGER Scanner, RFID and Thermal printer with ARM7/ ARM9.
- Tools :- GNU Development tools, KEIL etc.
- Protocol :- I2C, SPI, RS232, At commands etc.
- Platform :- LPC22xx, LPC24xx (ARM7TDMI), ATMEL at91rm9260ek/at91rm9263 (ARM9ejs), Freescale 8bit.

## S. N. Systems

SOFTWARE ENGINEER

Pune, India

March. 2006 - Oct. 2007

- Developed vehicle tracking system using GSM, GPS .
- GPS based digital clock for Railway platform.
- Developed automatic spraying Cartesian robot.
- *Tools* :- HEW IDE, KEIL etc.
- *Protocol* :- I2C, RS232, At commands etc.
- *Platform* :- Renesas microcontroller, 8051.

## Moser Baer India, Limited

GRADUATE ENGINEER TRAINEE

Pune, India

Dec. 2003 - Jan. 2005

- Work under Process Department to support CD / DVD manufacturing department.
- Develop motor spinning profile to improve productivity.
- Doing Audit of the process parameter of manufacturing machine.

## Skills

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### Programming Skills

- C, C++, Assembly
- QML

- XML
- SQL

### Tools Skills

- ORCAD
- GNU Development Tools

- Eclipse, Keil

### Language Skills

- English (High Proficiency)
- German (Beginner)

- Hindi (High Proficiency)
- Marathi (Mother Tongue)

## Reference

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- Mr. Sanjay Suryawanshi, Deputy General Manager, LT Infotech (India), Email- Sanjay.Suryawanshi@Intinfotech.com
- Mr. Arne Haeckel, Project Manager, IFM synton (Germany), Email- arne.haeckel@web.de