Prashant Tiwari

Male, DOB: 14ᵗʰ Jan 1986

✉ prashantsitm@gmail.com

Mobile: +91-9871222947

Location: Bangalore

🔗 https://www.linkedin.com/in/prashant-tiwari-3a756912

Profile Summary:

I have around 8+ years of work experience in the field of embedded software. I am sincere, highly flexible, adaptable and hard working. My performance has been very consistent.

I had:

- Strong programming experience in C/C++ including complete hands-on experience in the software product development lifecycle.
- Familiar with Software Design patterns.
- Strong Experience in Object Oriented Programming.
- Knowledge of Data Structures & Algorithm.
- Excellent Knowledge of Embedded Domain.
- Strong mathematical and analytical skills.
- Known for excellent troubleshooting skills.
- Knowledge of MISRA-C++:2012 Coding Standard.
- Excellent knowledge of DO-178B, EN50128
- Hands on experience on Critical Software.
- Member of SWAT (Software Architecture Team).
- Familiar with the Agile Scrum Methodology.
- Good oral and written communication skills.
- Member of Recruitment Team, successfully on boarded and trained 4 members in Development Team Gurgaon.

Specialties

- Worked as a part of Software Architecture Team (SWAT).
- Adaptable & quick learner.
- Deliver things with high quality & timely.
- Positive Attitude & friendly behaviour.

Technical Expertise

Skill & Languages: C, C++, ADA, Shell Scripting, Perl, Python, Integration & Unit Testing

Tools: RTRT, DOORS, VectorCast, IBM Rational Change, Eclipse, MS Visual Studio, Perforce, SVN Tortoise, Git-Gerrit, QuickSilver and IBM Synergy

Project Management & UML Tools: Microsoft Visio, SMART Uml and Visual Paradigm

Operating System: Linux, Windows, QNX, VXWorks & TIZEN

Certification:

- Six Sigma Green Belt Certificated (earned along with Honeywell service).
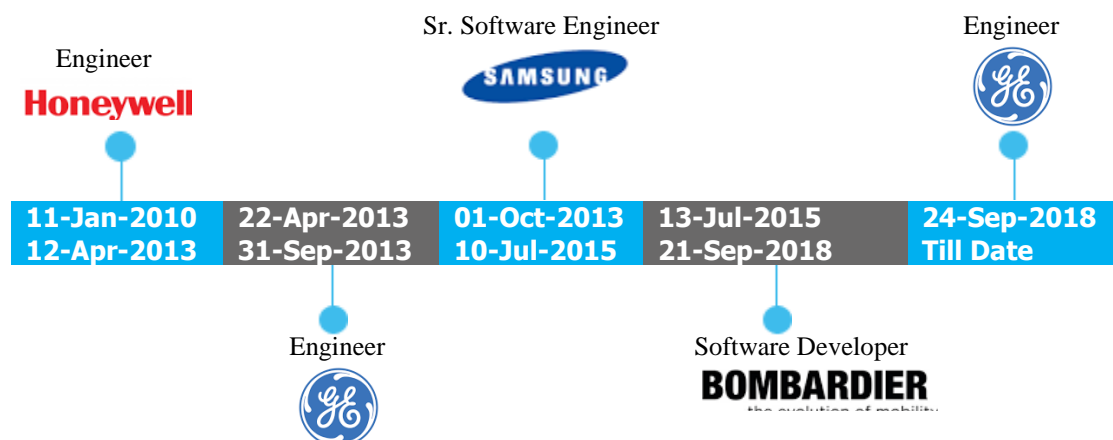- SCRUM-Agile Way of Working (earned along with Bombardier service).

On Site Experience:

- Had 3 months of on-site experience in Sweden (Stockholm - Bombardier)

I was working as a part of Software Architecture Team, Worked on various design pattern like Façade, Observer, Mediator.

- Had 3 months of on-site experience in South Korea (Samsung).

I was involved in information gathering for the new implementation that has to be carried out in India.

Career Timeline

11-Jan-2010 12-Apr-2013	22-Apr-2013 31-Sep-2013	01-Oct-2013 10-Jul-2015	13-Jul-2015 21-Sep-2018	24-Sep-2018 Till Date

Engineer — Honeywell
Sr. Software Engineer — SAMSUNG
Engineer — GE
Engineer — GE
Software Developer — BOMBARDIER

Project Profiles:

Bombardier Transportation:

Project Title   ATPCU (Automatic Train Protection Control Unit)
Team Size   15(Distributed at 3 locations)
 Contribution

- ❖ Worked as a part of Software Architecture Team (**SWAT**).
- ❖ Design the various functional package.
- ❖ Module Owner of Balise Group(FP06), Track Condition (FP09) and FP00 (Reduced Code Complexity and increase performance) out of 17 Functional package.
- ❖ Individual Contributor of the functional package Track Condition (*This FP is used to inform the driver and/or the train of conditions in front of the train, to react on these conditions and to supervise these reactions from start to end of their validity*.).
- ❖ Mentoring the new team members.
- ❖ Member of the Task Force Team.
  Apart of this I created few scripts in python-2.7 for reducing manual work.

Samsung India:

Project Title   Connectivity (Network Setup/BluetoothSetup/ Wifi)
 Team Size   5
 Contribution:

- ❖ Development and maintenance of the Network / Bluetooth Application.
- ❖ Used BOOST library.

Apart of this I was involved in the below **POC** for the **emerging market**.

- ❖ **Mobile Tethering:** Connect the mobile through the USB.
- ❖ **Call and SMS feature in a SMART TV:** Providing Call and SMS feature in DTV smart TV through dongle.
- ❖ **Soft-AP:** Make your TV as a Hot Spot.
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GE India:

Project Title   **LocoVision**(Rail road camera solution**)**
 Team Size   8
 Contribution:

- ❖ Owner of two subsystems out of 8 subsystems.
- ❖ Provide coordination between Erie & Bangalore Team.
- ❖ Responsible for porting the whole software on Linux platform.
- ❖ Mentoring the new joiners in LCV team.

Honeywell India:

Project Title   NG-FMS (Flight Management System)
Client   Boing-747, Gulf Stream G650, Airbus A350
 Team Size   30
 Contribution:

- ❖ Working in product development, developing code from low level requirements and deriving low level design documents from higher level documents.
- ❖ Complete Test Ownership of system level testing.
- ❖ Mentoring new joiners.
- ❖ Analyze the DTS requirement. Develop the SRD, SDD and SRC based upon the requirements specification doc.
- ❖ Execution of SLTP tests on ITEG, HSS and VALFAC environment.
- ❖ Responsible for successful execution of all Airbus/Boeing and oversight Audits for Dev team in Bangalore.

*C-DAC ACTS Pune***:**

Project Title : Enabling the PCI devices
Detailed description: Fakephp.c will "emulate" removing PCI devices from the system. If the "power" file is written to with "0" then the specified PCI device will be completely removed from the kernel. My driver again adds the entry in sysfs file and re-enabled it.
Teamsize   1
Contribution: Developed, documented & demonstrated the project.

ACADEMIC PERFORMANCE:
- **Bachelor of Technology** in **Electronics & Communication** from UPTU with **70%** (Duration 2004-08)
- P.G. **Diploma in Embedded System Design** course **in CDAC-ACTS**, Pune (Duration 2009-10).

Achievements /Co-Curricular Activities:
- Created own educational web-site (https://sites.google.com/site/mithhusite/)
- Got many Awards including Individual Excellence in Honeywell.
- Got memento for contribution to the *NGFMS Software Product Line* first certification in Aug 2011 from **Boeing**.
- Got Manager Recommendation in Samsung India.
- Participated in various sports and other cultural events at school & college level.
- Logged Two WID Entries.
- Successfully converted one POC into Project during Samsung tenure.

Hobbies:
- Playing Chess
- Solving **Puzzles**
- Accepting Challenges.

Last updated: 17-Dec-2018