**CAREER OBJECTIVE:**

[](https://www.linkedin.com/in/prashant-tiwari-3a756912)

**Prashant Tiwari**

**Male, DOB: 14th Jan 1986**

Mobile: +91-9871222947

Location: Gurgaon

www.linkedin.com/in/prashant-tiwari-3a756912

[prashantsitm@gmail.com](mailto:prashantsitm@gmail.com)

To strive for growth – in terms of valuation, knowledge, learning; there by optimizing a goal **congruent** behavior with a balance tradeoff between technical skills & self-developed attitude to elevate the self & the organization into higher & profitable peaks.

**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, DO-178C, EN50128**
* Hands on experience on Critical Software.
* Member of SWAT (Software Architecture Team).
* 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).
* Module Owner of 3 functional package out of 17 packages.
* Adaptable & quick learner.
* Deliver things with high quality & timely.
* Positive Attitude & friendly behaviour.

**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.

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| **Employment History:**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Name of the Company** | **Designation** | **From** | **To** | **Duration** | | GE India Technology Centre | Engineer  Senior Engineer | 22-Apr-2013  24 Sep 2018 | 31-Sep-2013  Till date | 6 months  3months | | Bombardier Transportation India | Software Developer | 13th Jul 2015 | 21-Sep-2018 | 3.2 yr | | Samsung Resarch & Development Institute Delhi | Senior Software Engineer | 1st Oct 2013 | 10th Jul 2015 | 1.9 Years | | Honeywell Technology Solutions Lab, Bangalore | Engineer (Avionics) | 11 Jan 2010 | 12-Apr-2013 | 3 Yr | | |  |

**Project Profiles:**

***Bombardier Transportation:***

* **Project Title** ATPCU

**Duration** 20- Jul 2015 to till Date.

**Team Size** 15(Distributed at 3 locations)

**Language** C++

**Detailed Description:** ATPCU is heart of ETCS Onboard equipment deployed in the train to ensure safe operation by monitoring train’s speed & target points based on information received from the train & trackside systems over GSM-R. ATPCU is developed with the highest safety standards specified for ERTMS & ETCS systems by the norm EN50128 Safety Integrity Level 4 software development process.

**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** TP\_BluetoothSetup

**Duration** 01- Feb 2015 to 10-Jul 2015.

**Operating System** Tizen

**Team Size** 5

**Detailed Description:** This module provides the Bluetooth feature for the Samsung Smart TV, UHD etc. They are used for connection and disconnection of Bluetooth headset, Bt speakers and Game Pad.

**Contribution:**

* Development and maintenance of the Bluetooth Application.
* **Project Title** Connectivity

**Duration** 10- Oct 2013 to 30 Nov 2014.

**Operating System** Tizen/Orsay

**Team Size** 4

**Detailed Description:** This module provides the Network feature for the Samsung Smart TV, UHD etc. They also provide various feature like screen mirroring, Wi-Fi Direct, Plug n Play, Soft-AP etc.

**Contribution:**

* Development and maintenance for the Network Application.
* Used BOOST library.

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

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

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**Programming Language**: C++

***GE India:***

* **Project Title LocoVision**

**Duration** 24 Sep 2018 to till date.

**Operating System** QNX/Linux

**Team Size** 8

**Detailed description** :LocoVision is a GE transportation’s rail road camera solution. It is a system where multiple IP camera records HD video for rail road applications. The system is made up of multiple subsystems & has multiple hardware pieces. The current system is utilizing the QNX 6.5.1 & Linux Operating System

**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.

**Programming Languages**: C++

* **Project Title** Smart HPT

**Duration** 29 Apr to 31-Sep 2013.

**Operating System** QNX

**Team Size** 3

**Detailed description**: The Smart Horsepower per Ton (Smart HPT) system is an incremental fuel-savings feature of Trip Optimizer which is designed to power the minimum required number of locomotives while maintaining the originally planned Trip

Optimizer speed and travel time. Smart HPT redistributes the horsepower demand to fewer locomotives to increase the consist efficiency. This effectively changes the HPT rating of the train in order to decrease overall train fuel

consumption. The Smart HPT system uses the consist train line, and consist communication technology to command

individual units within the lead consist.

**Contribution:**

* Working in whole product development life cycle, starting from system level requirement to system testing.

**Programming Languages**: C++

***Honeywell India:***

* **Project Title** NG-FMS (Flight Management System)

**Duration** Jan 2010 to Dec 2011.

**Client** Boing-747, Gulf Stream G650

**Operating System** Wind River Work Bench, VxWorks,Linux

**Team Size** 30

* **Project Title** Flight Planning Core

**Duration** Jan 2012 to April 2013

**Client** Airbus A350/Boing 787

**Operating System** Wind River Work Bench, VxWorks

**Team Size** 10

**Detailed description**:

Next Generation Flight Management System (NG-FMS) provides several different level of automation to reduce pilot’s work load and also provides accurate guidance, navigation and performance to save operational cost of airlines. The various functions that the FMS performs include Automatic Navigation, Guidance and Control, In-flight performance optimizations, Map displays, Data Communications, Interface for the pilot etc. The FMS software is a complex system and for the maintainability and effective operation, the system is divided into various functions. The software is space partitioned to provide reliability and redundancy.

Whole project is coded in three languages C, C++ and ADA.

**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.

**Skill & Languages**: C, C++, ADA, Shell Scripting, Python

**Change Control**: SVN Tortoise, Git-Gerrit, IBM Synergy, CM21, Perforce, Clear Quest, Clear Case, DOORS, Team Center, QuickSilver & RTRT

**Project Management & UML Tools:** Microsoft Visio, Star UML, Visual Paradigm, Vector Cast, Eclipse, MS Visual Studio 2015, putty, Jira & Gnu debugger

***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** 2

**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).

**Certification & Training:**

* **Six Sigma Green Belt Certificated** (earned along with Honeywell service). This training intends to provide the participants the skill to Improve business significantly using new Six Sigma methodology. On Completion of this certification delegate is able to develop a capability for using simulation tools, process mapping, and decision point analysis and process management to minimize the risks associated with the improvements typical in a services company situation
* **SCRUM-Agile Way of Working** (earned along with Bombardier service): The intend of this training is to get aware the individual about the agile way of working. This WOW is very useful in developing and sustaining complex products.

**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 Recommendationin 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: 12-Dec-2018**