

Email Print

- [Send Email](#)
- Preview
- Modify



Amit Jain

+

premium

★

Featured

Project Leader seeking assignments in Solution Architecture,Software Development,Application Programming,Program Management,Project Management,Requirement Gathering,System Analysis,Gap Analysis,Solution Architecture,Performance Tuning,C,C++,C#

- Current Designation:* Project Leader and Architect-IT
- Current Company:* Honeywell Technology Solutions Lab
- Current Location:* Bengaluru / Bangalore
- Pref. Location:* Bengaluru / Bangalore
- Functional Area:* IT Software - Application Programming / Maintenance
- Role:* Tech Architect
- Industry:* IT-Software/Software Services
- Gender:* Male

- Total Experience:* 19 Year(s) 0 Month(s)
- Annual Salary:* Rs 30.0 Lac(s)
- Highest Degree:* B.Tech/B.E. [Electronics/Telecommunication]

- Key Skills:* Project Leader,Tech Architect,Solution Architecture,Software Development,Application Programming,Program Management,Project Management,Requirement Gathering,System Analysis,Gap Analysis,Solution Architecture,Performance Tuning,C,C++,C#

Verified : Phone Number | Email - id

ID: 5f5c3b33350e5be127Last Active: **Oct-Dec 2019**Last Modified: **Oct-Dec 2019**

Jump to Section  
[Work Experience](#) | [Education](#) | [IT Skills](#) |

## Summary

Leading the team developing Azure Cloud based solution and IoT platform for connecting the new and legacy Security and Fire Panels as edge devices.  
Driving the new cloud based solution with API Gateway, Events Hub, Database, APIs, front-end UI and third party cloud products integration for billing and licensing.  
Working on key features like live data display on the WebApps, Mobile Apps for monitoring.  
Driving Data Analytics like device Health monitoring and display using Grafana Dashboards.  
Leading the team for understanding Cyber Security Requirements, creating Threat models and Pen testing.  
Leading the team to understand Data privacy regulations like GDPR and Device certifications like CE, FCC, UL.  
Driving code reviews to ensure high performance code, best practices, coding standards are followed.  
Mentoring the teams for Agile software development methodology and building feature specific scrum teams.  
Driving the collaboration with cross-functional geographically distributed teams.

## Work Experience

- Honeywell Technology Solutions Lab

as Project Leader and Architect-IT

Feb 2014 to Till Date

Leading Life Safety Products team at Honeywell. The team is working on a cloud platform project for new range of Life Safety products with advanced features for the end users. This is an end to end solution which involves Sensors, Control Panels, Gateways working like Edge devices, Web Applications and Mobile Apps. The Gateways send data to cloud hosted services which in turn send data to Web Apps and Mobile

Apps. The Cloud solution is hosted on Azure and built using micro services. There are Event Hubs, Database, API Gateway and Front-end UI. There are third party products integrated with the solution like Azure Active Directory, Azure IoT Hub, Billing and Licensing module etc. This is an innovative all-in-one cloud platform for allowing system integrators and facility managers to deliver an improved service to end users. The solution provides deep insight of the system by device, building, client, city or globally. Using real time data like device age, health and status information, efficient maintenance planning can be done and reports can be generated at the touch of a button. Implemented key features like managing Live Events from devices, store history data, report generation and OTA device Firmware upgrade. Implemented devices health monitoring and Analytics using Fluent bit, Kubernetes, ELK stack and Grafana Dashboards. Drive the team to have best solution and product needs like scalability, performance and NFRs. Ensure the team has right milestones to achieve in regular intervals using Scaled Agile methodology. Ensure CI/CD pipeline is functional using proper configuration of DevSecOps tools like Bitbucket, JIRA, Bamboo, Sonarqube, Octopus, rapid7, Blackduck etc with all Quality Gates defined. Drive setup of Dev, QA and Production cloud environment using Blue Green deployment. Drive regular Sprint and PI demos with stakeholders and make necessary changes as per feedback. Drive Cyber Security requirements review, binary scan reports review, regular actions to close vulnerabilities and conduct Pen testing. Review Threat Model and plan to apply Cyber Security measures like updated patches, PKI certificates, Firmware Signing, Secure boot etc. Conduct architecture, design and code reviews of complete end to end system including device firmware and cloud software. Work closely with product managers and business leaders to drive the next set of features, develop solutions, feature gap analysis, clarifying use cases and prioritizing features in an incremental way. Responsible for ensuring sanity of architecture, operational excellence and quality, delivering results on time and working with other software teams in order for the feature to launch. Mentoring the team on Agile development methodology as the project is setup with Scaled-Agile methodology with multiple scrum teams at different locations. Team building, recruitment of new talent, mentoring team, and providing training as per project needs. Drive product platform strategy, design and execution within the engineering team.

•

**Mindteck India Ltd** as *Tech Lead and Associate Technical Manager*

*May 2008 to Feb 2014*

Technical contribution in different projects, lead roles in some projects, done coding in large projects with teams spread in different geographic areas, bug fixing in few projects, documentation and quality initiatives, mentoring junior team members, training, recruitment, new project proposals, worked with sales team for new initiatives.

Projects:

Tablet evaluation board based on ULP-COM specification (SMARC):

This is a evaluation board based on ULP-COM specification. Nvidia's latest ARMv7 quad core processor Tegra3 and TI's Sitara range of processors were used in the design. The board had most of the high-speed peripherals like USB ports, mini SATA, micro SD card, PCIe slots, multiple serial ports, multiple SPI and I2C buses, single and dual channel LVDS display, audio codec, HDMI port, mSATA device, eMMC card etc. The work was to do board bring up using Linux and make all device drivers working. Ported u-boot and Linux BSP with all necessary changes as required for the new board. Updated architecture and board level initialization files for the new board. Released Linux code patches over distributed version control, git. Worked on drivers for Ethernet, PCIe, SATA, SPI based devices, I2C based power management, low power states and RTC. Written an I2S based loop back program for Wolfson audio codec. Ported Android ICS release on the board with Nvidia Tegra3. Added the I2S functionality in the kernel driver for four ports. Tested the new 3G over PCIe feature on the board. Worked on test pattern generations for CAN, SATA, USB. Performance analysis by porting benchmark programs. Ported Memory and CPU stress testing utilities on the system. Tested an IR version of Linux BSP with standard Linux Test Project (LTP).

Atom based wireless product for lighting control:

This product was designed using Intel Atom processor. Linux Meego distribution was ported and a java application was developed. The application can control outdoor lightings using zigbee wireless protocol.

Ported Linux Meego distribution on the newly designed hardware with Intel Atom processor.

Did complete board bring-up with low level board related changes in the software. Implemented BIOS changes involving third party vendor.

Worked on device drivers for touch screen, usb based devices, WiFi and 3G.

Ultra Low Temperature Freezer:

This product was a new design of a laboratory ULT Freezer with many advance features like touch screen control, temperature history graphs, diagnostic tools, remote SMS etc. The design used three micro controllers Freescale Coldfire V2, V3 and Microchip PIC16. Initial trade-off study was conducted to select the most optimized parts for microprocessors, LCD and memories for the system. Customized the Linux OS and u-boot boot loader for Coldfire V3 micro controller. Developed and updated the SD card, RTC clock and I/O drivers. LCD and Touch Screen drivers were modified as per the hardware. Written drivers for peripherals like external flash, PWM, DAC and serial ports, drivers for temperature sensors like TC and RTD using 24-bit ADCs. Developed Boot loader and code upgrade application. Designed a RS485 protocol for communication between the main and display board. Integrated the HID door access card driver and the application to manage multiple cards. Worked on GUI development using C++ and Pegpro tool kit. Written the application software as per product requirements for Pic16 and Coldfire V2 micro controller. The software was written without using any OS. The Freezer control algorithm was tested in detail with integrated testing. Developed Linux test utilities for production testing.

Industrial Compressors Controller:

This project was a re-design of an existing product with ARM11 and PowerPC based processors and new set of semiconductor devices in the hardware. Major work involved the bring-up of new hardware and device drivers. The core product application was ported as it is from an existing model.

•

**Mobiapps India Pvt Ltd** as *Sr Software Engineer*

*Nov 2005 to May 2008*

m100 Satellite Modem:

A satellite data communications transceiver was developed that provided the worldwide satellite data communications over the ORBCOMM satellite network. It also featured GPS interface. It featured the unique Over-The-Air (OTA) code upgrade thereby greatly simplifying the field logistics. The compact modem hosted a DSP processor with Mobiapps RF Module and a GPS RF down converter. Implemented the proprietary OTA protocol, using which the code running in the modems can be upgraded while they are deployed in the field and thereby constantly adding the features in the existing modems in the field. Implemented a fast, robust and small foot print open source Nand Flash File System (Yaffs) on the blackfin platform. Additional features were added like bad block management, garbage collection and block wear management systems. Prepared a reverse modem which can be used to test a regular modem. Developed the generic boot-loader for the modem. A boot loader utility was developed to support the OTA and fast booting of the modem. Prepared the API manual to provide support to the application developers.

Seakey, a tracking device for ships:

This was a product built on top of ORBCOMM Satellite Modem but with an additional GSM module. This product was mainly intended for terrestrial vehicle tracking devices.

Integrated and tested the GSM module from iwow and Telit with required AT-command set.

Prepared the socket server for handling the OTA code upgrades and a script to automatically generating the OTA packets. Designed an

application on top of the core modem, to handle the GPRS packets. Tested various GSM related basic functionality like signal strength, Working Band etc.

[^ Back to Top](#)

## Education

- UG: **B.Tech/B.E. (Electronics/Telecommunication)** from **Karnataka University, Dharwad, Karnataka, India** in **1998**

[^ Back to Top](#)

## IT Skills

Skill Name	Version	Last Used	Experience
C, C++, C#, Python, Shell Scripting			
Linux BSPs, RTOS, OS-less firmware			
TCP/IP, HTTPS, TLS			
Android, iOS, Windows devices			

[^ Back to Top](#)

## Affirmative Action

- Physically Challenged:* No

[^ Back to Top](#)

### Important

- Using Free CV Search you have access to featured candidate profiles of Naukri. You can browse through the profiles and email the candidates of your choice directly using the email option provided. To prevent misuse of candidate information, contact details and attached resume of the candidates have been withheld.

[Careers](#) - [About Us](#) - [Clients](#) - [Terms & Conditions](#) - [FAQ's](#) - [Contact Us](#) - [Report a Problem](#) - [Site Map](#) - [Resources](#)

Our Partners: [Jeevansathi Matrimonials](#) - [ICICIcommunities.org](#) - [99acres](#) - [Real Estate In India](#)

All rights reserved © 2019 Info Edge India Ltd.