Sudhanshu **Gupta**

Senior SDE - III @ Amazon (L6)

C | C++ | Java | ARM Assembly | Python
BSP | RTOS | DS & Algo | Design Patterns | Android

CONTACT

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in sudhanshu-gupta-4844878

EDUCATION

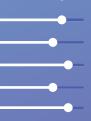**M.S.** [Softwares Systems]
BITS Pilani
2007 - 2009

B.Tech [Electronics & Telecom]
College Of Engineering Roorkee
2000 - 2004

INTERESTS

SYSTEM DEBUGGING
DRIVER DEVELOPMENT
ML & AI
RASPBERRY-PI & ARDUINO
IoT / CLOUD BASED PROJECTS
PROJECT MANAGEMENT

SKILLS

BSP
Device Drivers
Android
RTOS
OS Concepts
RTOS

WORK EXPERIENCE

20yrs exp (Oct 2004 till present)

Senior SDE - 3
Amazon, Bangalore

Nov '23 - Present

Working on Amazon's SMP Devices (Kara, Sheldon, Mantis, Karat, Gazelle) as part of BSP team, working on Android Platform / Kernel issues reported on production devices.

Senior Staff Engineer
ChargePoint Technologies, Gurgaon

Apr '20 - Sep '23

New Feature development (C / C++14) on EV Charging Stations (Linux App Developpment) under NPI framework and main-tainence of legacy products. Managed a team of 3 engineers & liaise with cross functional teams for deliveries. Regular stat`us presentations to senior management.

Staff Engineer
NXP Semiconductors, Noida

Mar '17 - Mar '20

Board Bringups, Uboot, Linux, Debugging, Driver Development (Tbgen, Axiq, DCS, Clocking) on NXP SoCs.

Senior Android Developer
OLX India Pvt. Ltd., Gurgaon

Sep '15 - Feb '17

Feature development on OLX's C2C consumer segment based Android Application. Requirements understanding from Product owner and designing team.

Senior Software Engineer
Intel Technologies, Bangalore & Noida

Feb '11 - Sep '15

Board bringup & System Debugging for Intel's internal projects (Android based tablets) and at client location(s) Micromax (Gurugram) , Samsung (Noida)

Senior Software Engineer
Infineon Technologies, Bangalore

Jun '06 - Jan '11

System Debugging for Infineon based base-band SoCs at various client and internal project locations (Korea, China, Germany, Finland, Austria, Nigeria).

Software Engineer
LG Soft India Pvt. Ltd.

Oct '04 - Apr '06

PhoneBook App developer using LG's UI development frame-work - PDK.

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PROFILE

Board Bringup (Uboot & Linux) | System Debugging | Platform (Middleware)
Embedded Mobile Applications - RTOS | Drivers development
Android Application Development

PROJECTS UNDERTAKEN

Amazon Development Centre, Bangalore

SMP (Streaming Media Players)

· Production issues analysis related to System / BSP of Legacy SMP products across the world.

· Responsible for Code reviews for both vendor and in-house code.

· Preparation of Release software that goes into SMP products (Kara, Mantis, Sheldon, Sheldon Plus, Gazelle) across globe.

· End-to-End Vendor interaction for driving the open issues to conclusion.

ChargePoint India Pvt. Ltd. Gurgaon

Macaw NPI (New Project Initiative)

· Board Bringup of EV Charger with NPI code base.

· Single Handedly worked on writing application level drivers (Linux User Space) to Start / Stop charging over SPI interface.

· Demo given to Senior VP, much appreciated.

Legacy Product (CPH / CT4K / CP4K / CPE250)

· Managed & Mentored a small team of 3 engineers.

· Responsible for resolving production issues on legacy EV stations.

· Hosted cross-functional weekly status meetings with upper management including VP-Product Team, VP-Cus- tomer Escalations.

· Participated in Design discussions and freezed low level architectural details for new feature devel- opments for legacy products.

Panther NPI (CP6K)

· Developed few critical C++14 linux user space applications for ChargePoint's new age EV station - "Commissioner - running as a systemctl service" "DevicePair"

"Remote Logs Fetch" - scalable design (uses Polymorphism that accomodates fetching station logs over different communication protocols - supports https & ftps.

"Reset Factory Defaults" - feature implements linux (isolation) targets to reset stations back to facto- ry state.

· Participated in Design discussions with US dev team and freezed low level details for new feature developments on legacy products.

Board Bringup (DCC board)

· A strategic PoC project to demonstrate India team's skill sets to upper management. Scope of this project was more of boot to prompt.

Finbox porting onto RPI4

· A voluntary effort to port Finbox (Factory in a Box) utility used by Factory team to commission EV stations at factory. Finbox RFS was integrated onto RPI4's linux code base, custom binary was built and tested over memory card.

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P R O J E C T S   U N D E R T A K E N

NXP Semiconductors India Pvt Ltd, Noida

Geul&WDL–5GSoC
- Board Bringup and bug fixes.
- Conducted regular code-reviews for junior team members.
- Architected & Developed Drivers on FreeRTOS
- TTI (Tick Timer Interrupts) - User-Space Application, Library & Linux kernel driver development.
- TBGEN (Time Based Generator)
- DCS (Data Conversion System)
- AXIQ Loopback driver
- Test-Framework that enables various teams to test their code without recompilation of binary.

VNP – Vehicle Network Processor
- Board Bringup and bug fixes.
- SoC primarily focused at automotive industry.

LS1028 – ENETC & TSN
- Pre-Silicon and Post-Silicon Board bring up. activities. (Uboot boot loader & Linux).
- Preparation of Quality Docs for Releases.
- Scrum / Agile methodologies followed religiously.
- Debugging of code via in house debugger – NXP's CodeWarrior & CCS

OLX India Pvt Ltd., Gurgaon

Developed New Features (Sole Ownership)
- Complete Ownership of White Theme project.
- Zopim Chat (Customer care chat assistance).
- Content First feature development.
- Bug fixes.
- Implementation of Native Ads (DFP) on HomeScreen and Ad Details page.

Intel Mobile Communications, Noida/Bangalore

Android platform engineer
- Debugging of platform issues for Android based Micromax tablets on Intel Chipsets. Handling Linux kernel driver issues that occur on customer products.

Infineon Technologies, Bangalore / Onsite

- Phonebook expert for Infineon's Apoxi framework (C++).
- Glue layer development (TINA)
- System Debugging.
- Debugging System issues, (Lockups, Deadlocks, Crashes, Hardware issues).
- Power measurements, Performance / Latency measurements.
- Worked with major OEM(s) – LG (Korea), Samsung (Korea, Germany), Nokia (Finland), BenQ (China)

LG Soft India Pvt Ltd, Bangalore / Korea

- Application engineer (C++ based).
- MMS Stack developer
- PhoneBook expert