

Alok Pandey

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PROFILE SUMMARY

- **2+ years** of experience in **Embedded Software and Integration** in **Mobile Chipset and Automotive Chipset**.
- **Technical Engineer**, proficient in **Build and Release Management** in **Android Security Domain**.
- Hands-on configuration, integration and system testing of **multiple Qualcomm chipsets**.
- **Worked on upgrading security** so every time Customer get latest security.
- Expertise in integration and testing of Peripherals for Android Mobile and Automotive.
- Knowledge of Perforce Tools.
- Programming knowledge of **C, Embedded C, C++ , Data Structure**.
- Contributed reusable Knowledge documents, created multiple Confluence pages.
- Experience in **defect tracking tools like Jira** and finding root cause analysis of the bugs/defects.
- Single point of contact for various Qualcomm chipsets.
- Working knowledge of Qualcomm tools i.e., **QFIL, PSI, Aggregator, Orbit, Aris, Tiberium, Polaris**.
- Experience in **Linux**, Windows.
- Expertise in performing the **regression & Integration testing** and **identifying the culprit germs**.
- **Merging, promoting** of batch and maintaining **base builds for versatile chipsets**. **Setting up environment** for testing of **multiple hardware**.
- Triaging and collecting **Logger information** of failed testcases.
- Experience in handling hardware devices, troubleshooting and make them boot up.
- Experience in using ADB and Fastboot for flashing and accessing devices.
- Working knowledge on **GIT** and basic knowledge on **Jenkins**.
- Strong communication skills, Expertise in giving KT's & good team leading skills.
- Good Documentation skills.

TECHNICAL SKILLS

- **GIT • Jenkins • Android Integration • Physical Device Testing • Linux OS Internals • Confluence • Jira • C Programming,**
- **Embedded C • Regression & Gating Testing • Logging • Basic Sanity • Qualcomm Internal tools • ADB and Fastboot • Qualcomm chipsets**

PROFESSIONAL EXPERIENCE

Build & Integration Engineer

Qualcomm (CONSULTANT) – Innominds Software Pvt Ltd

Sep 2023 - Present

Kernel Upgrade v6.1 from 3.18

- Involves in Hardware Bring up activity **integration and testing multiple image variants on Wifi Router Chipsets.**
 - Hands on experience on Kernel Con-fig management for drivers.
 - Knowledge of Kernel development
 - Receives Open Gerrits from Developers and **compiles the build**, resolves any **compilation issues.**
 - **Automating** testcases using **python scripting.**
 - **Flashing the Linux build** to a particular device using **ADB and Fastboot** commands
 - Root cause analysis and troubleshooting by fetching logs and analyzing dumps, using Qualcomm internal tools like QXDM, Crashescope.
 - Experience in **Windows, Linux operating systems.**
 - Involved working with different processor architectures like x86/ARM/ARMv7.
 - Experience in **Jenkins** CI/CD tool and version control tools like **GIT , Perforce**
 - Maintaining **base builds for versatile chipsets.**
 - Maintaining, connecting, and **setting up environment** for testing of **multiple hardware.**
 - Proactive in taking up **ad hoc activities** and **supports team requirements** as per the need.
 - **Single Point of contact for different Qualcomm chipsets** for Integration team.
 - **Handling and Networking** with different teams to analyze issues.
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Build & Integration Engineer

Qualcomm (CONSULTANT) – Innominds Software Pvt Ltd.

Feb 2022 - August 2023

ASPU- Android Security Patch Upgrade

- Analyzed and integrated the latest Android security patches.
 - **Collaborated with the development team to test and implement the security upgrades.**
 - Ensured compatibility and stability of the updated security patches with existing systems.
 - Provided support and troubleshooting for any issues arising from the security patch upgrade.
 - **Utilized Perforce for version control, managing code changes and ensuring seamless integration of updates.**
 - Maintained and optimized CI/CD pipelines using Jenkins to automate the build, test, and deployment processes.
 - **Provided detailed documentation and support for the implementation and maintenance of security patches**
 - Improved the efficiency of the release process, reducing time to deployment and enhancing overall customer satisfaction.
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Embedded Trainee

Vector India Bangalore Karnataka

July '21 - Jan '22

Completed Module on Embedded System Course

- Trained on C, Embedded C, 8051
- Protocols UART , SPI, I2c

EDUCATION

Dr. A.P.J. Abdul Kalam Technical University[Lucknow U.P.]	April '17 - July '21
B. Tech. in Electronics and Communications	
Sarvodaya Public School Azamgarh U.P.	June '15 - July '17
High school and Intermediate	

PERSONAL DETAILS

Date of Birth: 05th Nov,1999
Languages Known: Hindi, English