

SUSHMITHA MACHARLA
Software Engineer 1
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Experience Summary:

A dynamic embedded professional, having 2 years of experience in the field Storage drivers & IOT Domain with a proven record of successful work as a Software Engineer 1. Highly flexible in adjusting work pace to meet evolving client needs.

Currently working as a Software Engineer 1 in Development of storage drivers for IOT platforms at Qualcomm.

- Experience in C and DS programming.
- Experience in LINUX Device drivers programming.
- Experience in storage technologies EMMC, SD, SDIO, RPMB
- Good Knowledge on Linux internals Process Management, Memory Management, File Management
- Good knowledge on IPC mechanisms pipe/fifo, shm, msQ and Synchronization mechanisms like Mutex, semaphores and Spinlock
- Worked with Code Versioning system (GIT) as a code repository.
- Good knowledge in Communication protocols- I2C, UART, SPI, SDHCI
- Worked in Qualcomm based SOC's.
- Good knowledge in Linux debugging techniques.

Employment History:

Organization	Dates	Designation
Mirafra Technologies Pvt Ltd, Hyderabad Client: Qualcomm	Aug 2023 – Till date	Software Engineer 1
Mirafra Technologies Pvt Ltd, Hyderabad	July 2022 – July 2023	Trainee Engineer
Kernel Master Software training institute, Hyderabad	July 2022 – Feb 2023	Trainee Engineer (Intern)

Technical Experience Summary Table:

OS/Processors	Linux, ARM
Languages	C
Drivers	EMMC, SD, SDIO, RPMB
Tools	Platform Builder IDE, Vi Editor, JTAG, Notepad++, Beyond compare, PCAT ,QFIL, git/gerit, Crashscope , Vysor , Alpaca , gdb , Make

Key Projects:

Current Projects at Qualcomm Hyderabad, INDIA:

1. RUMI and Bring Up in storage drivers EMMC, SD

Description	Done Rumi validations and Bring Ups on eMMC and SD
Role	Software engineer
OS/Platforms	Linux kernel
Skills	C, Linux kernel drivers, EMMC , SD
Contribution	RUMI validation Bring Up
Duration	Ongoing +2years.

2. Bug fixing in storage drivers EMMC, SD, SDIO

Description	Porting and bug fixing activities related to file systems for IOT based platforms and upstreaming
Role	Software engineer
OS/Platforms	Linux kernel
Skills	C, Linux kernel drivers, EMMC, SD, SDIO
Contribution	Issue debugging and bug fixing related to EMMC, SD, SDIO drivers. Porting related activities. Upstreaming of driver related features. Kernel upgrades.
Duration	Ongoing +2years

3. Bug fixing in RPMB storage drivers

Description	Bug fixing activities RPMB for IOT based platforms and upstreaming
Role	Software engineer
OS/Platforms	Linux kernel
Skills	C, Linux kernel drivers, RPMB
Contribution	Issue debugging and bug fixing related to RPMB. Upstreaming of driver related features.
Duration	Ongoing +3months

Educational Qualifications:

Bachelor of Technology (B.Tech) in **Electrical & Electronics Engineering** from
Vaagdevi college of Engineering, Telangana, INDIA passed with 70%

Personal Information:

Name	:	Sushmitha Macharla
Father's Name	:	Srinivas Macharla
Nationality	:	Indian
Languages Known	:	English & Telugu
Sex	:	Female

Date:
Place: Hyderabad

Signature
(Sushmitha Macharla)