

Guru Das Srinagesh

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EXPERIENCE

Senior Software Engineer, Qualcomm Innovation Center Inc., San Diego, CA (Dec 2020 – present)

- Working on Linux kernel development in the Baseport team
- Leading kernel bring-up and feature commercialization for upcoming flagship Snapdragon SoC
- Handled pre-silicon and silicon board bringup from adding device trees to subsystem bringup via remoteproc
- Designed Secure Monitor Call driver update allowing it to handle multiple requests by placing them on a wait-queue
- Mentored summer intern and junior engineers in team
- Contributed patches to open source community via Linux kernel mailing lists and Android Common Kernel.

Software Engineer, Qualcomm Innovation Center Inc., San Diego, CA (Dec 2017 – Nov 2020)

- Linux kernel device driver development and Android integration on Snapdragon SoCs
- Designed, developed and upstreamed new MFD driver for IRQ management on PM8008 chip
- Developed device drivers for PMICs in Snapdragon SoCs SM8250, SM8350 and SM8450
- Device drivers for PMIC peripherals: LEDs, regulators, PWMs, IRQ chips, battery charger ICs
- Added Android userspace support for SoC: Lights and battery charging HALs, sepolicy, battery charging daemon
- Carried out battery charging tests and worked on customer issues
- Contributed patches to open source community via Linux kernel mailing lists and Android Common Kernel.

Systems Engineer, Qualcomm Technologies Inc., San Diego, CA (Jul 2016 – Nov 2017)

- LTE Physical Layer Firmware development using proprietary RTOS
- Firmware algorithms to implement Automatic Gain Control (AGC) of received signal strength

Intern, Qualcomm Technologies Inc., San Diego, CA (May 2015 – Aug 2015)

- Optimized an LTE Physical Layer firmware algorithm for carrying out neighbor cell signal strength measurements

EDUCATION

Georgia Institute of Technology, Atlanta, GA (Aug 2014 – May 2016)

- Master of Science (M. S.), Electrical and Computer Engineering

M. N. National Institute of Technology, Allahabad, India (Jul 2008 – May 2012)

- Bachelor of Technology (B. Tech), Electrical Engineering

PROJECTS

Linux Kernel open source contributions

- <https://tinyurl.com/guru-das-linux-contribs>
- Authored change to QCOM SCM driver to handle multiple requests by placing them on a wait-queue.
- Authored MFD driver for PM8008 chip with significant modifications to regmap-irq framework
- Converted PWM framework duty cycle and time period to u64 to allow for larger time periods

The Eudypatula Challenge (Jan 2017 – Nov 2017)

- Independently learned to be a Linux Kernel developer by solving a series of kernel hacking tasks