

# Sanket Parmar

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## Summary

- Skilled professional offering an experience of 4+ years in the embedded software and IT domain
- Excellent analytical skill summed up with proficiency in C, Linux and Open source tools
- Well adapted with agile development and open to work in multi cultural environment
- Expert in debugging/problem solving for complex system
- Advanced in Linux Kernel modules, Device driver development for STB, Multimedia over IP

## Experience

- 2014–Present **System Software Engineer, NVIDIA (Smartplay Technologies)**, Bangalore.  
Part of Tegra system software group. Maintained and supported system software for Tegra based VCM.
- 2012–2013 **System Software Engineer, STMicroelectronics (SmartPlay Technologies)**, Noida.  
Worked with INPUTs subsystem team for set-top box at ST Microelectronics. Maintained and developed RF/IP Frontend driver for STLinux. Responsible for new hardware support, customer support, and maintenance. Also served as sub system integrator.
- 2011–2012 **Intern, ST Microelectronics**, Noida.  
Worked on audio driver of STB based chip sets. Maintained different modules of audio driver. Implemented new features to validate different components of audio driver.
- 2008–2010 **System Software Engineer, Merce Technologies**, Bombay, India.  
Developed and supported different modules of Merce product. Key member of mass mailing product *Broadside*. Deployed and maintain whole system setup at client sides.

## Education

- 2010–2012 **M.Tech Information and Communication Technology, 6.70 CPI.**  
Nirma University, Gujarat, India
- 2004–2008 **B.E Information Technology, 7.21 CPI.**  
GCET, Sardar Patel University, Gujarat, India

## Projects

### RF/IP Frontend device driver for STB, ST Microelectronics.

- Worked on kernel space device driver for ST and other 3rd party tuner and demodulator hardwares, IP frontend drive
- Provided support for different tuners/demods for different broadcast transmission standards(dvbs, dvbc, dvbt)
- Worked on multimedia over IP(IPFE) with UDP and RTP support
- Improved IPFE performance using multithreading and FEC/Jitter related optimization
- Made tools to provide easy debugging/statistical information
- Used KDB, SYSFS, Oops analysis for debugging
- Automated different development using Jenkins CI

### Audio device driver for STB, *ST Microelectronics*.

- Developed and maintained audio device driver for STB on OS21 and Linux
- Implemented new development request for different parts of audio device driver
- Improved DDP parser for MS11 certification
- Worked on CRC based verdict generation to test different components of audio driver
- Automated firmware generation process

### Broadside, *Merce Technologies*.

Broadside is an automated mass mailing solution. It provides different facilities like bulk mail, mailing list, auto responder and MIS reports.

- Developed the logic and core code of the application
- Implemented daemons to check the status of each transmitters, track the applications' version
- Implemented bounce mail handler with bounce mail parser
- Implemented bulk uploader to upload the logs in postgres database
- Integrated DKIM key and Sender policy Framework in broadside
- Programmed the E-mail refile notification module which reminds the users to keep the inbox size in allowable limit.
- Implemented Password expiry module which allows admins to impose password expiry.
- Maintenance and on-site support

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## Masters thesis

Title	<i>Parallel I/O Performance Optimization Using Interval Based I/O</i>
Adviser	Prof. Zunnun Narmawala, Nirma University, Ahmedabad
Description	Propose a theoretical model which addresses the storage problem of application data in parallel file systems legacy view. We develop a new file model and required software infrastructure using MPI views and data layout awareness technique to distribute the objects on I/O servers.

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## Computer skills

Super	C, Shell, Perl	Good	C++, Java, PHP, HTML
Passable	Python, Assembly, L <sup>A</sup> T <sub>E</sub> X	Platforms	Linux, Android
Tools	Git, Vim, GDB, Photoshop, Virtual-Box	Database	MySQL, PostgreSQL

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## Interests

Software	Linux, Android and Open Source	Embedded	Arduino, Raspberry Pi
Domain	Device Driver, Kernel Development	Other	Blogging, Photography

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## References

Available upon request