

# Suyog S. Buradkar

## Contact Information

Permanent Address: Near Shitla Mata Temple, Natraj Chowk, Sutarpura, Wani, District Yavatmal, Maharashtra, 445304

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## Professional Experience

HCL Technologies

*Embedded Systems Engineer*

August 2022 - Present

Client: Sony Softwares India Pvt Ltd

- Handle issues with tickets assigned on GitLab, ensuring timely resolutions and updates.
- Modify Device Tree Blob (dtb) files to support vendor-specific features.
- Apply kernel patches, mostly from the Ubuntu Official repository, to maintain system integrity and functionality.
- Engage in kernel release activities, reporting issues related to build or boot with target systems based on Qualcomm Dragon Board, NXP iMX6, NXP iMX8, and Nvidia Tegra boards.
- Implement CVE fixes from community patches to enhance system security.
- Write test scripts in Python for Git commit diff and checking commit messages, improving code review processes and version control.
- Perform testing on various kernel features like boot time, heap profile, LZ77 compression, version signature, and performance.
- Resolve conflicts during merge activities or cherry-picking upstream commits.
- Cherry-pick missing commits from upstreams to keep the project updated.

Brisker Electronics

*Contractor - Embedded Systems Engineer (Freelance)*

December 2018 - June 2022

Clients: Kubic India Solution, Mumbai and Shining Sun Vision, Nagpur

- Led the integration of HVAC protocols, focusing on Texas Instruments Sitara ARM64-based controllers for BACnet and Modbus implementations.
  - Engineered solutions for protocol handling and device communication, improving system efficiency and reliability.
  - Fixed Modbus protocol issues over RS485 UART connections to integrate centralized air conditioning systems.
  - Conducted board bring-up for Amlogic S905 based ARM64 board.
  - Erased flash memory and loaded new Uboot loader on systems.
  - Prepared Debian-based customized root filesystems.
  - Integrated customized infrared remotes as keyboards for the application.
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## Education

Bachelor of Science in Electronics and Computer Science

Kamla Nehru Mahavidyalaya, Nagpur

September 2021 - Present

- Current percentile: 81.23%.

Undergraduate Studies in Information Technology

AM IETE, New Delhi

2009 - 2014

- CGPA: 6.7 / 10 (Dropped out in 2015).
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## Internships

EMN Technologies, Hyderabad

*Intern*

January 2015 - March 2016

- Developed applications in C programming.
  - Integrated peripherals like SPI, UART, I2C.
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## Achievements and Awards

- Best Performer Award for Valuable Contribution  
Linux SARD Project, Tokyo (Team Award)
    - Recognized for outstanding contributions to the project team.
  - Most Valuable Contractor Award  
Sony Awards 2024, Individual Category
    - Awarded for exceptional performance and contributions as a contractor.
  - OpenHack IISc Bangalore (Runner Up)
    - Developed an innovative solution based on generative AI and LLMs.
  - Google GENAI Hackathon 2024 (Finalist)
    - Ranked in the top 15 among 24,000 participants from the Asia-Pacific region.
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## Skills

- Programming: C, Python
- System Boot: Uboot, Kernel troubleshooting and fixes
- Software Management: Patch handling, Git tool, GitLab, CI/CD pipelines
- Protocols: Modbus, BACnet, RS485 UART
- Hardware Platforms: Qualcomm Dragon Board, NXP iMX6, NXP iMX8, Nvidia Tegra