

# Brahmajit Das

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## Work Experience

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### SUSE Linux GmbH

Linux Developer L3 Support

Remote  
May 2023 — Present

- Analyzing issues in various SUSE-supported products, while focusing on Linux Kernel
- Coordination of, and active involvement in, bug-fixing process, including backporting of Kernel CVE's
- Fixing bugs either on my own or in cooperation with subject matter experts
- Providing RCA with the least turn around time for FY24

### Google Summer of Code 2023

Student Developer at Gentoo Linux Foundation

Remote  
May 2023 — August 2023

- Patching packages to ensure C99 compatibility (Modern C standard)
- Ensuring packages are C23 compatible
- Patching and testing packages against llvm profile of Gentoo
- Final work report

### Google Summer of Code 2022

Student Developer at Gentoo Linux Foundation

Remote  
June 2022 — September 2022

- Porting GNOME Desktop and related packages for Gentoo's musl profile
- Fix other musl related bugs
- Actively participate in release engineering and GRS project
- Final work report

### Lifespark Technologies, IIT Bombay

Firmware Developer

Remote  
September 2021 — April 2023

- Primary embedded developer of project WALK based on ESP32
- Implementation of inter-device communication using wireless protocols (WiFi, BLE, MQTT)
- Ensuring firmware security using Secure Boot and encrypted flash storage
- Architect testing for devices using unit testing and mock testing (MPU, Battery, and Storage).

### Sironaaz Lab

Embedded Systems Engineer, Intern

On site  
May 2021 — September 2021

- Porting existing system for different  $\mu$ -processors
- Integration of decoupled web UI instance with hardware backend

## Education

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### Gurudas College

B.Sc. with Honors in Computer Science with Maths and Statistics; CGPA: 7.5

Kolkata, India  
2018 — 2021

## Core Technical Skills

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**Programming Languages:** C, C++, L<sup>A</sup>T<sub>E</sub>X, Python, Java

**Tools & Technologies:** Git, GitLab, Docker, LXD, GDB, debuginfod, LLVM toolchain, QEMU, FreeRTOS

**Platforms:** Linux, BSDs, RaspberryPi

**Architectures:** x86, ARM, ESP32, STM32

## Open Source Contributions

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### Linux Kernel:

- [git/torvalds/linux.git/commit/?id=5778ace04e6f07043f1564bc9b47b1098608cfdd](https://git.kernel.org/torvalds/linux.git/commit/?id=5778ace04e6f07043f1564bc9b47b1098608cfdd)
- [git/torvalds/linux.git/commit/?id=a500f3751d3c861be7e4463c933cf467240cca5d](https://git.kernel.org/torvalds/linux.git/commit/?id=a500f3751d3c861be7e4463c933cf467240cca5d)
- [git/torvalds/linux.git/commit/?id=e18655cf35a5958fbf4ae9ca3ebf28871a3a1801](https://git.kernel.org/torvalds/linux.git/commit/?id=e18655cf35a5958fbf4ae9ca3ebf28871a3a1801)
- [git/torvalds/linux.git/commit/?id=989e0cdc0f18a594b25cab60426d29659aeaf58](https://git.kernel.org/torvalds/linux.git/commit/?id=989e0cdc0f18a594b25cab60426d29659aeaf58)

**Gentoo Linux:** Neovim and LXD package maintainer, part of QA Team for GNOME Desktop environment. Provide other minor fixes from time to time. [Link to all my contributions](#)

**Blender:** Patching blender to build on musl libc. [GitHub commits](#)

**MoarVM:** After finding out that it was not being built with Clang 16, due to incompatible function pointer as Clang 16 enabled `-Werror=implicit-function-declaration` by default. See [commit 871f7bc](#).