

## Linux Plumbers Conference 2025



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# NVIDIA Approach for Achieving ASIL B Qualified Linux: minimizing expectations from upstream kernel processes

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Unlike the typical path chosen for attempting to use Linux in safety applications, the approach developed by NVIDIA strives to avoid placing any burden on upstream maintainers and developers.

Upstream maintainers should not have to become safety experts, nor the linux kernel should become encumbered by verbose descriptions of what the code does, for it to achieve safety.

We want to start a discussion about how we achieve this, and how it can coexist with upstream processes.

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