Recommended Zephyr Revision

Importing the Zephyr repository during the Installation steps requires a Zephyr revision. NXP's FRDM-MCXN947 board was upstreamed after Zephyr's v3.6.0 release. Until v3.7.0 is released in July 2024, the `main` branch should be imported for this this board. For more details, see Zephyr Revision.

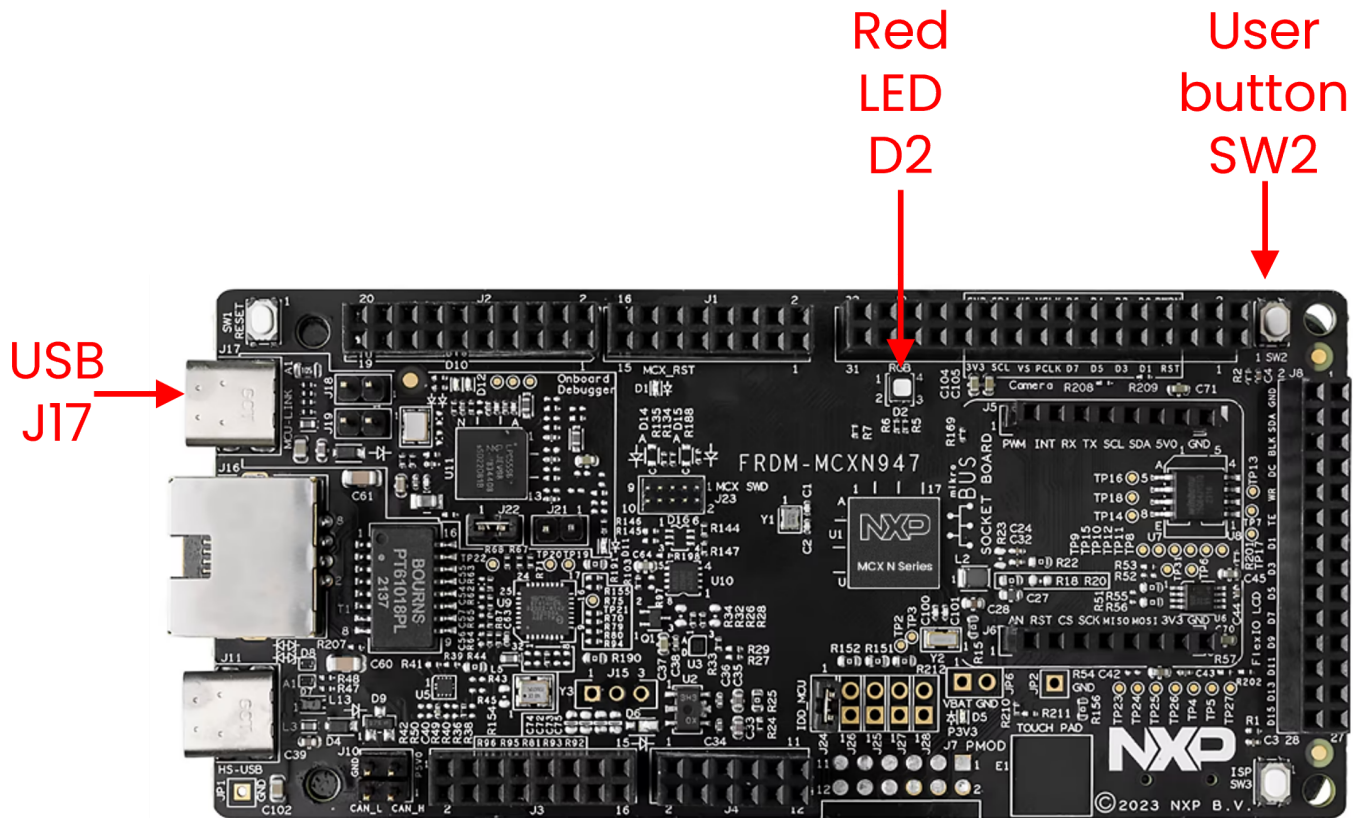# Zephyr Lab Guides with VS Code

This set of lab guides provide detailed steps to get started with Zephyr and the MCUXpresso extension for VS Code using the FRDM-MCXN947 board:

- Lab 0: [[Zephyr Lab Installation and Preparation]]
- Lab 1: [[Zephyr Lab MCXN947 Hello World]]
- Lab 2: [[Zephyr Lab MCXN947 Kconfig]]
- Lab 3: [[Zephyr Lab MCXN947 Debug]]
- Lab 4: [[Zephyr Lab MCXN947 Devicetree]]
- Lab Appendix: [[Zephyr Lab Revert Workspace]]

Hardware Requirements

These labs are written for the evaluation board listed below. However, these labs use sample applications in the Zephyr repository, and will easily run on other NXP boards supported in the Zephyr tree:

- FRDM-MCXN947
- USB Type-C cable
- This board integrates an on-board debugger, and the labs are written to use this debugger with the default MCU-Link CMSIS-DAP debug probe.

Lab Notes

- The lab steps are written for Windows 10. But Zephyr and NXP's tools, including the MCUXpresso extension for VS Code, are also supported on Ubuntu and macOS. All the labs will work on each supported OS with minimal changes needed.
- File Paths - The file paths used in these steps follow the Windows guidelines in the Zephyr Getting Started documentation, to place the *zephyrproject* folder in the user path `c:\Users\<USER_NAME>\zephyrproject`. These steps reference the user name **NXP**, so the path provided in the steps is `c:\Users\NXP\zephyrproject`. Be sure to change this path to match your installation.