

Lab 01: Software Installation

Installation

Please install the following programs on your laptop:

- KiCad - v6.0.10
- Git - version control software¹

Account Login

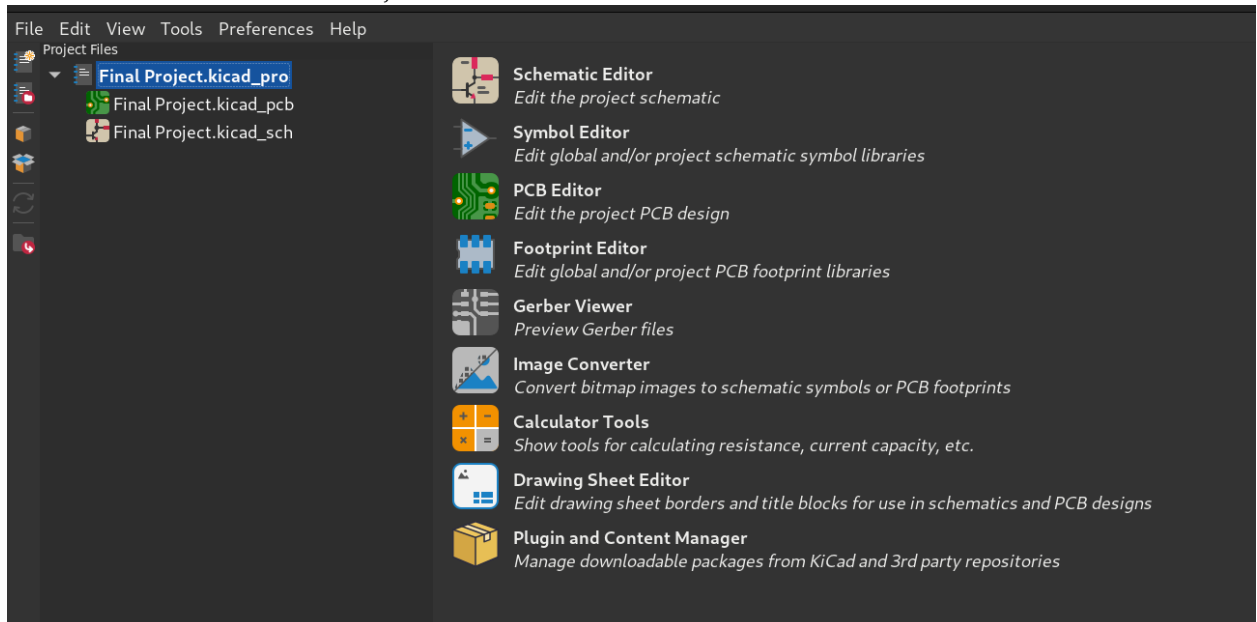
Please make sure you can log into each of the following cloud services:

- GitLab - version control / project mangement (use Shibboleth)
- Teams - install clients on your devices
- Sign up for an account on the Nordic Semiconductor DevAcademy

Test Installations

KiCad

- Download the following zip archive: https://gitlab.oit.duke.edu/mlp6/kicad_test/-/archive/main/kicad_test-main.zip
- Launch KiCad, and load the Project.



- Once the project is loaded, confirm that you can open the:

¹Note that Mac OS requires \geq v12.5 for Xcode.

- Schematic (select `Default` option for library)
- PCB (select `Default` option for library)
- In the PCB document window, render the 3D view of the board (`View -> 3D Viewer`)
- You should see what was shown in lecture for the schematic and PCB; the 3D view will be missing some parts.

Zephyr / nRF Connect

Complete Lesson 1 - nRF Connect SDK Introduction. This will run you through the process of:

- Installing Visual Studio Code.
- Installing all of the associated nRF Connect tools for your laptop, including the nRF Connect SDK.
- Installing the nRF Connect for VS Code extension pack.

Setup Git Configuration

Follow the steps outlined here:

<https://git-scm.com/book/en/v2/Getting-Started-First-Time-Git-Setup>

If you have never used `git` before, please sign up for a Duke Pathways introductory course: <https://pathways.duke.edu/modulepage/135>.