***Efficient Embedded Course***

**GETTING STARTED**

**Issue 1.0**

Contents

[1 Install Keil MDK 1](#_Toc90438037)

[2 Install the Driver 1](#_Toc90438038)

[3 Creating a New Project 1](#_Toc90438039)

# Install Keil MDK

You can find the latest Keil MDK installation package on Keil website.

After installing Keil MDK on your PC you will need to check if the board support libraries are included in your installation directory under C:\Keil\ARM\Boards\ST

If not, you may need to update your MDK to the latest version, or download the board support library package. For example, you can use the “Pack Installer” option (on the top tab) in the Keil MDK5.

# Install the Driver

For Windows user:

1. Download ST-LINK USB driver [http://www.st.com/web/en/catalog/tools/PF258167#](http://www.st.com/web/en/catalog/tools/PF258167)
2. Install the driver
3. Connect the board using an USB cable
4. Go to: Computer 🡪 Properties 🡪 Device Manager
5. Find “STM32 STLink” and right click 🡪 Update Driver Software 🡪 Search automatically for updated driver software

For other operating systems, you can find information on ST website

# Creating a New Project

To create new project, you can refer to “Keil uVision MDK - uVision Lab for the STM32F4 Discovery Board” (http://www.keil.com/appnotes/docs/apnt\_230.asp): App Note 230, Section 20 (Creating your own project from scratch)

Alternatively, you can open a MDK uVision project that has been provided to you in the lab modules, and then make modifications on it.

Note that for some labs, after downloading, you need to press the reset button on the board to start the program.