



TRF LEVEL 2 WORKSHOP 2023

ELECTRONICS DOMAIN

Guide for the software installation:

(P.S: Pressing the Ctrl key and hovering over the links will direct you to the link opening in the browser.)

In case of doubts regarding any software installation, contact your mentors beforehand.

Also, wherever you are creating accounts, please make sure that you are noting down the mail-ids (please use the college email-id) used usernames, passwords.

Please do not change the path for the software installation unless really necessary.

1. Arduino IDE:

Size: 112 (Windows)

<https://www.arduino.cc/en/software>

The link will direct you to the following
page: Downloads

 **Arduino IDE 1.8.15**

The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. This software can be used with any Arduino board.

Refer to the [Getting Started](#) page for Installation instructions.

SOURCE CODE

Active development of the Arduino software is [hosted by GitHub](#). See the instructions for [building the code](#). Latest release source code archives are available [here](#). The archives are PGP-signed so they can be verified using [this](#) gpg key.

DOWNLOAD OPTIONS

Windows Win 7 and newer
Windows ZIP file

Windows app Win 8.1 or 10 [Get](#)

Linux 32 bits
Linux 64 bits
Linux ARM 32 bits
Linux ARM 64 bits

Mac OS X 10.10 or newer

[Release Notes Checksums \(sha512\)](#)

Download the software as per your system requirement.

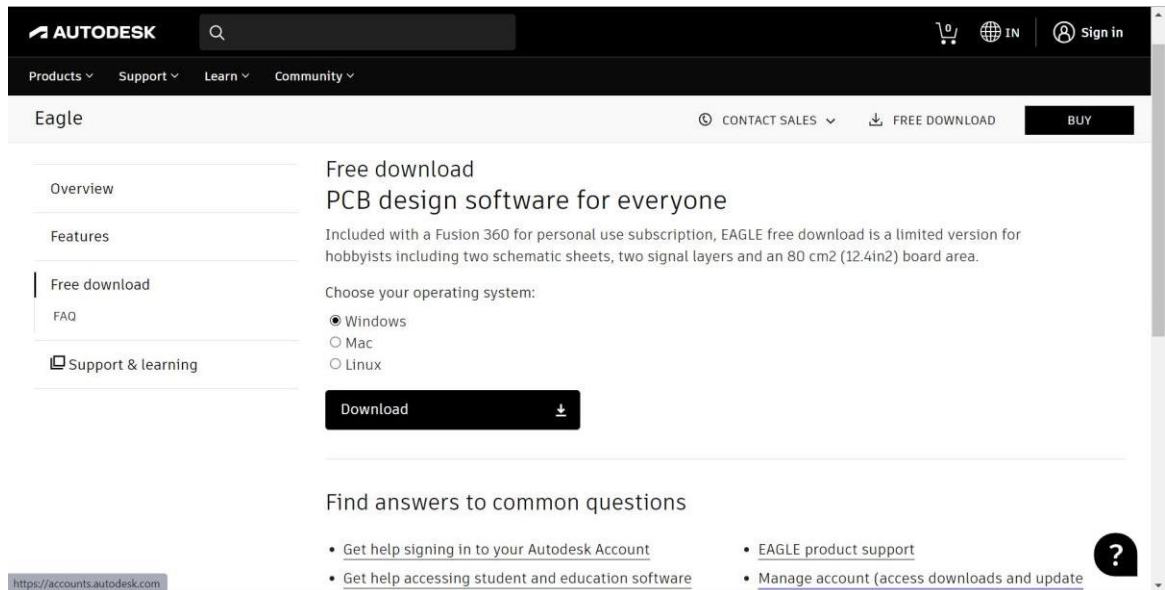
After downloading the setup file, run it for the installation.

2. Autodesk Eagle:

Size: 125 MB (Windows) || 146 MB (MAC) || 164 MB (Linux)

https://www.autodesk.com/products/eagle/free-download?us_oa=dotcom-us&us_si=b30b3295-5119-44e8-bc9a-57f632baa362&us_st=Eagle

The link will direct you to the following page.



Step 1:

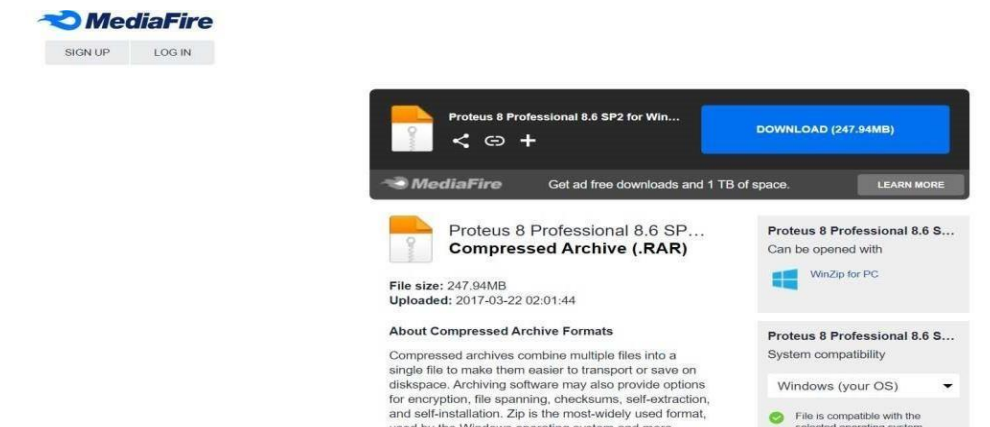
Sign in/ Create a new account using your vit.edu mail id. **Please make sure you are noting down your usernames/IDs and password**

3. Proteus Professional 8.6:

Size: 254 MB (Windows)

http://www.mediafire.com/file/bwcadw9480gurc4/Proteus_8_Professional_8.6_SP2_for_Windows.rar

The link will direct you to the following page.



Clicking on the following option for download will start your software downloading process.



After downloading the setup file, run it for installation.

Make sure you can see the following page before your session.

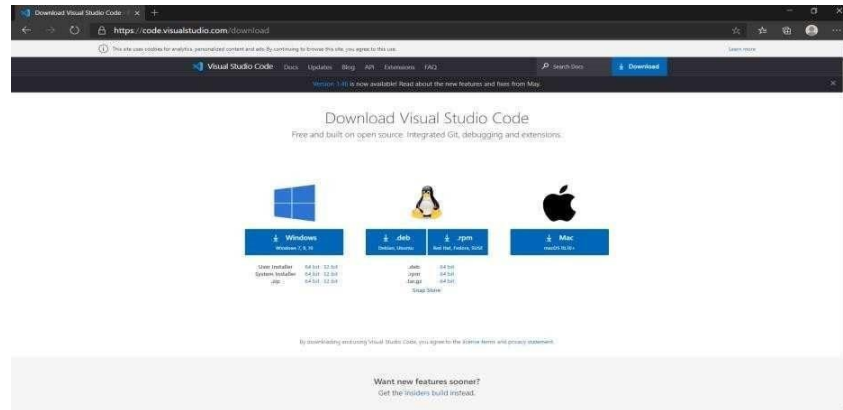


4. Visual Studio Code (VS Code):

Size: 58 MB (Windows) || 84 MB (MAC) || 60 MB (Ubuntu)

<https://code.visualstudio.com/download>

The link will direct you to the following page.



Select the appropriate version as per your system requirement.

After downloading the setup file, run it for installation.

5. Git:

Size: - 45 MB

Prerequisite: - Create an account on github.com Download

Link: - <https://git-scm.com/download/win> Follow the following video tutorial: - <https://www.youtube.com/watch?v=2j7fD92g-gE>

6. Atmel Studio:

Size: 874 MB (Windows only)

<https://www.microchip.com/en-us/tools-resources/develop/microchip-studio#Downloads>

The link will direct you to the following page.


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Tools and Software / Microchip Studio for AVR® and SAM Devices

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[Key Features](#)
[Getting Started](#)
[Downloads](#)



Microchip Studio is an Integrated Development Environment (IDE) for developing and debugging AVR® and SAM microcontroller applications. It merges all of the great features and functionality of Atmel Studio into Microchip's well-supported portfolio of development tools to give you a seamless and easy-to-use environment for writing, building and debugging your applications written in C/C++ or assembly code. Microchip Studio can also import your Arduino® sketches as C++ projects to provide you with a simple transition path from makersnare to marketnare.



Click on Downloads

Downloads and Documents

[Downloads](#) [Documentation](#)

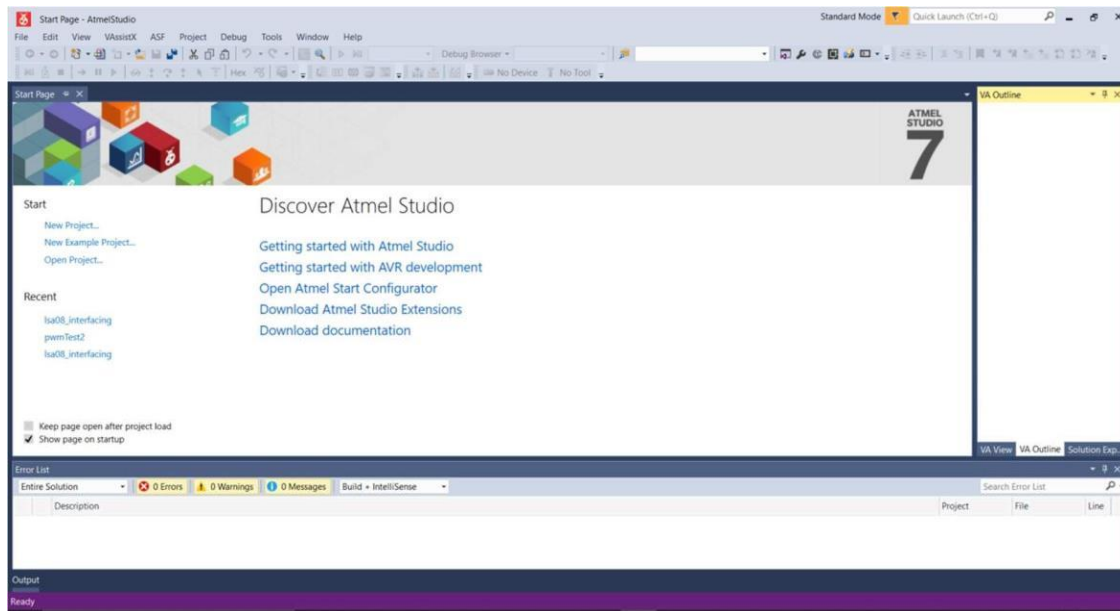
Windows (x86/x64)

Title	Date	Download
Microchip Studio for AVR and SAM Devices 7.0.2542 Web Installer	01 Nov 2020	Download
Microchip Studio for AVR and SAM Devices 7.0.2542 Offline Installer	01 Nov 2020	Download

We recommend you download the ‘offline installer’ version.

After downloading the setup file, run it for the installation.

Make sure you can see the following page before your session.



7. Dip Trace:

Size: Around 214 MB

<https://diptrace.com/download/download-diptrace/>

The link will Direct you to the following Page

SOFTWARE	INFO	SIZE	DOWNLOAD
DipTrace 4.3 Trial (Windows)	All features and libraries, 30-day trial	214 Mb	32-BIT 64-BIT
DipTrace 4.3 Freeware (Windows)	All features and libraries, 300 pins and 2 signal layers, non-profit use only	214 Mb	32-BIT 64-BIT
DipTrace 4.3 Mac (Mac OS X)	All features and libraries. Freeware: 300 pins, 2 signal layers limit. Convert to any edition with the registration key.	688 Mb	INSTALL DIPTRACE

Latest stable build: 4.3.0.1 (August 5, 2022). Supported OS: Windows XP / Vista / 7 / 8 / 8.1 / 10 / 11; Linux (Wine); Mac OS Catalina / Big Sur / Monterey.

★ Any package can be converted to DipTrace edition of your choice when registered.

We recommend you download the 'FREWARE' version.

After downloading the setup file, run it for the installation.