

LIST OF FREE & OPEN SOURCE SOFTWARE

Category	Software / Resource	Link to Download Page	Description
CAD / CAM	AutoCAD	https://www.autodesk.in/	Free version for students
	Open SCAD	https://opencad.org/	Scripting CAD Software
		https://mastering-opencad.eu/buch/introduction/	Book for learning Open SCAD
		https://opencad.org/cheatsheet/index.html	CheatSheet for OpenSCAD
	FreeCAD	https://www.freecadweb.org/	3D Parametric Modeler
		https://wiki.freecadweb.org/Draft_ShapeString_tutorial	Tutorials for learning FreeCAD
	Marlin Firmware	https://marlinfw.org/	Firmware for 3D Printers and CNC Machines
	Slic3r	https://slic3r.org/	CAM Tool for 3D Printing
Printrun	https://www.pronterface.com/	3D Printing Host Suite	
MakerBot Thingiverse	https://www.thingiverse.com/	Repository of 3D Models	
Development Boards & SBCs			
	Arduino IDE	https://www.arduino.cc/en/software	IDE for Arduino and NodeMCU Boards
	Raspberry Pi OS	https://www.raspberrypi.org/software/operating-systems/	Operating System for Rpi
	Debian Buster	https://www.debian.org/releases/buster/debian-installer/	Raspberry Pi Desktop
	Raspbian	https://www.raspbian.org/	Operating System for Rpi
	Libre Office	https://www.libreoffice.org/	Office Suite
Programming			
	Python	https://www.python.org/	Programming language
	CodeLite	https://codelite.org/	IDE for C, C++, PHP and JavaScript
	GitHub	https://github.com/	Platform for making software
	R	https://www.r-project.org/about.html	Statistical programming and image processing
Machine Learning			
	OpenNN	https://www.opennn.net/	Open-source neural networks library for ML
	Google TensorFlow	https://www.tensorflow.org/	Open source Machine Learning Platform

Image Editing, Processing and Analysis

GIMP	https://www.gimp.org/	Image Editor
RegiStax	https://www.astronomie.be/registax/	Image processing software
AutoStakkert	https://www.autostakkert.com/	Image stacking software
PIPP	https://sites.google.com/site/astropipp/	For pre-processing; Making videos
ImageJ	https://imagej.nih.gov/ij/download.html	Image editing, processing and analysis

Theatre & TV

DaVinci Resolve	https://www.blackmagicdesign.com/products/davinciresolve	Video editing, corrections, effects, Audio post
Blender	https://www.blender.org/	Modeling, animation, simulation, rendering
AegiSub	https://aegisub.en.uptodown.com/windows	Subtitle editing tool