

EP1000 Tools

SP Library / Fablab Operating at

- T1441~3 Engineering Academy Fab Lab
- T11C Fablab Central
- Makerspace @ Library

Each FabLab has equipment/tools unique to its function. All FabLabs facilities are open to ALL students of Singapore Polytechnic

Equipments

Manual Operations

- Simple Hand Tools
- Powered Hand Tools (Drills, Saws, Sanders)
- Foam Work
- Acrylic Benders

Digital Fabrication

- 3D Printers & 3D Scanners
- Laser cutters
- Flatbed cutters and routers
- 3-axis Milling Routers, PCB and Small Scale Routers
- Vacuum Formers
- Mold Making and Casting
- Digital Embroidery Machines
- Paper & Vinyl Cutters
- Hobby Craft - DyeSub Printing, T-Shirt Heat Press, Mug Creation, Badge Making

Software Tools

Very essential tools for the digital fabricator Use Open Source Tools
(Cross-platform)

- Pure Text Editor - Atom, SublimeText3, Visual Studio Code(W), Notepad++(W)
- Raster Graphics - GIMP
 - o Image Resizers - FastOne Photo Resizer(W)
 - o Image Capture - PicPick(W), Shutter(L), SnagIt(M)
- Vector Graphics - Inkscape, LibreCAD
- Full CAD System - Fusion 360
- Embedded Controller IDE - Arduino
- Browsers Firefox, Chrome, Chromium
- PortableApps

Software Installation

Text Editor	Notepad++
Graphics	GIMP
Editor Vector	Inkscape
Editor Screen	
Capture Image	
Resizer	
CAD System	Fusion 360
IDE	
Browser	

Include this table in your documentation

- Add to the contents, should you change
- Keep old choices and reasons to compare

Importance of Sketches



1. Allows you to express your thoughts
2. Need not be pretty
3. Refine your sketches as you formalize your design
4. Add dimensions to the sketches
5. Ink your final designs to make them stand-out.
6. Sketches help in refining your digital designs

EP1000
Tools
End