

Bonus Tools and Skills

The list below contains all the additional tools and skills that are available in the Invention Studio to learn.

* Denotes tool that must be taught by the respective master

Wood Room

- Wood lathe*
- Chisels and hand planes*
- Domino
- Kreg Jig
- Japanese Hand Saws

Laser

- DXF cleanup
- Dithering
- Leather engraving
- Puzzle-making software

Paint Booth

- Air Brush*
- Create a stencil
- Strip paint off an object

Electronics

- PCB Mill*
- Hot air rework station
- Microscope with monitor
- Battery recycling/charge measuring
- Heat shrink
- SMD soldering
- Circuit design software (KiCAD or EAGLE)
- Arduino design and programming

Bike

- Common sources of play (bottom bracket, headset, dropout/axles)*
- Wheel truing*
- Rim/disc brake adjustment
- Pegboard tools

CAE

- SolidWorks Simulation
- NX Nastran
- CAD Upgrades (shortcuts, 3D space mouse, mouse customization)
- COMSOL
- ANSYS

XR

- 3D Scanner*

Waterjet

- Etch/scribe*
- Clearing garnet clog on ProtoMAX*
- Clearing air cylinder clog on MaxiEM*
- Waterjet Brick & Alternatives
- Saw Mode

Metal Room

- Metal Lathe*
- Angle Grinder
- Grinding Wheels
- Spot Welder
- Tapping and countersinking holes
- Sand Blaster
- Nibbler
- Reciprocating Saw
- Compact Bandsaw
- Three Wheel Bender

3D Printing

- Markforged*
- Composites/PVA
- Unclogging Bowden Tube on BambuLabs
- Unclogging S3/S5 Nozzles

Craftland

- Embroidery Machine*
- Leather Sewing*
- Bedazzler
- Serger*
- Sublimation Printer*
- Heat press Vinyl (T-shirt Press)
- Foam cutting tools
- Advanced Vinyl Cutter: Trace Panel, Cardstock, Multiple/Extra Tools, Troubleshooting, etc.

CNC

- Manual Mill*
- Tormach*
- Pocket NC*
- EMCO*
- CAMaster*
- Shaper Origin*