## Skill Tree: Color in the boxes and level up your skills





(set your own goal)

Build a robot with Arduino

Get 3D scanned

and print a model of

Teach a class on 3D Printing or 3D modelling (set your own goal)

Make a model in a sculpting software ₩

Do a wearable

tech project

Create a design using vector software and cut with the vinyl cutter

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3D Print something on fabric

3D Scan,

eg. Blender, Z-brush, MudBox

Make a project with a Raspberry Pi yourself

Fix something with 3D printing with multiple parts Fix broken electronics with the

fix and print a model

Make a circuit that includes a button or switch

Create a design using vector software

Embed electronics magnets or something else inside a 3D print

Design, print and

assemble something

Met 1 Sew something practical

Create and 3D print a model in MeshMixer

Use an overlocker

Îterative design: Print

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Design a two colour print in Fusion

soldering iron

Reverse engineer something in CAD

Print a tool of some kind

Design and print something with press fit parts Use heat set

Create a render in Fusion 360

something again after making improvements

Use the lab power supply unit to provide voltage to a project

software

Use a conveyor belt printer





Repair something that

Create a model in Fusion 360

sticker

Use a vinyl

cutter to make a

Use the hot air gun

something

3D Scan

Teach someone how to 3D Print



threaded inserts

in a part

Wind your own thread into a bobbin



Print in two colors or materials

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Learn to read a schematic

Make something with Arduino

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3D print something

Do a hot pull and cold pull cycle to unclog a



Have a spectacular print failure, with lots of spaghetti

Edit an existing

Use the Arduino Serial Monitor

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Measure voltage with a multimeter on fabric

Use the hot glue gun

something that solves a problem

Print a model with tree supports

model and print رع

Print something for the home

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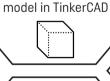
Use spiralise or vase mode to print something

Have a failed print and fix the problem

Use a zigzag

Learn to desolder a through hole component

Use 3D Builder to help you prepare a model for printing



Learn to

use wire strippers

Create and 3D print a

Create something from Customizer on **Thingiverse** 

Learn to

use a drill

Use the calipers

to measure something

Learn sewing machine basics stitch on a sewing machine

Prototype

a project with

cardboard

Print an articulating or print in place model

Print in PLA

Light up an LED for the first time

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Print a gift for a

friend or family

member

Learn to Solder

Put on your

first 3D Print

3

Use an FDM printer for the first time

material Learn to use a breadboard

**START HERE** 

Name: \_



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