Skill Tree: Color in the Boxes

Color in the boxes of anything you've already completed, visualize your skills and identify your skill gaps. Get inspired to try new things and tailor the skill tree to suit your own journey by swapping in your own goals.



(set your own goal)

Use capacitive touch in a PCB design

(set your own goal)

Design a PCB

SAO or badge for a

conference

Se se

Repair a mistake

on a PCB

Make an open

source project

OSHW

Use a crowbar

circuit to protect

against over voltage

5

Build a robot

Fix something

that's broken

Use addressable

RGB LEDs in a

project

유

Learn about

Make something with PCB Art

Order a PCB with your design

×

Learn PCB Design Software

Se se

Measure capacitor equivalent series resistance

Use a shift register in a project

Make an Internet of Things (IoT) project

Use a diode to protect your circuit from reverse voltages ____

Learn to read a datasheet

Learn about Ohm's Law

voltage, current and resistance 5

Learn to read a schematic Design a 3+ **layer PCB**

8

Use a pick and place machine

Apply solder paste to a PCB with a stencil

••••

Look at an audio input on an oscilloscope

Make an antenna

((1))

Accidentally let out the magic smoke

M

Amplify a sound or signal

Make an oscillator that makes noise

> Learn

about different types of batteries

/ Learn to

use wire strippers

(set your own goal)

Teach a class on Electronics

Build a Radio Frequency (RF) Project

 \Box

Filter unwanted noise from a signal

> Measure

voltage with an oscilloscope

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Make a motor controller with a H Bridge



Use a 555 timer in a circuit

0000 555 0000

Use an LED matrix in a project

Turn a breadboard circuit into a schematic and vice versa

Make something with Arduino or a dev board

Light up an LED 유

MADE BY BRODIE FAIRHALL & STEPH PIPER - MAKERQUEEN AU

Create an **FPGA Project**

Release a tutorial on a project you've made

Use a frequency

analyzer for a project

Use a surge diode to project a circuit

Make something

with solar panels [===\

Measure frequency with a multimeter or

oscilloscope

Make a project

with a Raspberry Pi

Measure current with a multimeter

Measure voltage with a multimeter

Complete an electronics kit

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HERE

1

Make a DIY

capacitor

(set your own goal)

Use automatic

power supply

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Make a switch mode power supply 3

Make an electronic sculpture

Make a PID circuit with Op-Amps

(set your own goal)

gain control Use a MOSFET instead of a relay in

a project Make a regulated

Make something with a 7 segment

display 15:34 Teach a friend an electronics skill

Make a counter

with logic gates 이이경

Make your own **USB** cable Use a relay

to switch something on at a higher voltage 3 Learn to solder

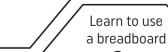
surface mount parts **<**□□~

Turn something on using a sensor **å**)) Make a voltage

divider to lower the voltage for a project Get a circuit wrong and try

again earn to desolder a through hole

component





1 tile = 1 point

Total Score

START Name: .

