

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

Use for individuals or as a group by picking a color each and coloring in a part of the box. Everyone's journey is different and you can interpret the goals flexibly. The aim is to inspire you to learn and try new things. Not everything needs to be completed.



(set your own goal) (set your own goal) (set your own goal) (set your own goal) Create an Design a multi-**FPGA Project** layer PCB Se Contraction Use capacitive Make a switch Teach a class on touch in a PCB mode power supply Electronics design 3 Release a Make something Make an open tutorial on a project with PCB Art source project you've made OSHW Build a Radio Make a PID circuit Apply solder paste to Frequency (RF) with Op-Amps a PCB with a stencil Project •••• \Box Order a PCB Use a frequency Build a robot analyzer for a project with your design Se se Use a MOSFET Filter unwanted Repair a broken instead of a relay in a noise from a signal trace on a PCB project Use a surge Use an LED Learn PCB diode to project a Design Software matrix in a project circuit S₂ Measure Make an Internet Make something voltage with an of Things (IoT) with a 7 segment oscilloscope project display Look at an audio Measure Make something 18:34 input on an capacitor equivalent with solar panels oscilloscope series resistance Use a crowbar Make a motor [===\ Make a counter controller with a circuit to protect with logic gates H Bridge against over voltage 이이경 5 Make an Measure frequency antenna with a multimeter or Make something oscilloscope for a friend **((1))** Use an Op-Amp Make a wearable Make something in a circuit tech project with Arduino R Create a Θ Let the smoke Make a project circuit diagram out accidentally with a Raspberry Pi with software M Use a relay Use addressable Use a 555 to switch something RGB LEDs in a timer in a circuit on at a higher voltage project 0000 555 0000 Measure Use a diode to Make a sound 3 protect your circuit louder with an current with a amplifier from reverse voltages multimeter **4**) Make an Turn a breadboard Turn something oscillator that circuit into a makes noise



Fix something that's broken



Learn Ohm's Law



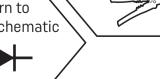
Learn to read a schematic

Learn to read

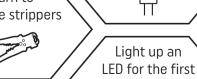
a datasheet Learn to use wire strippers

Make something

that makes noise



control the brightness of an LED 유



time

schematic

Learn to

an electronics kit V

HERE

Measure voltage

with a multimeter

Complete

on using a sensor

√-))

Get a circuit wrong and try again



Learn to Solder



(set your own goal)

Make an electronic sculpture



Use automatic gain control



Make a regulated power supply



Teach a friend an electronics skill



Make your own **USB** cable



Learn to solder surface mount parts



Make a voltage divider to lower the voltage for a project



Learn to desolder a through hole component



Learn to use a breadboard



1 tile = 1 point

Total Score

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START