

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

Use for individuals or as a group by picking a colour 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) Write your Create an own C/C++ library FPGA Project for a sensor from scratch 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 Make an tutorial on a project with PCB Art source project electronic sculpture you've made OSHW Build a Radio Make a PID circuit Learn PCB Frequency (RF) with Op-Amps Design Software Project **X** Order a PCB  $\Box$ Use an e-paper Use a fregency Use automatic with your design analyser for a project display in a project gain control R 9111 Use a MOSFET Filter unwanted Repair a broken instead of a relay in a noise from a signal trace on a PCB project W [-\sigma] Use a surge Use an LED Make your own Make a regulated diode to project a **USB** cable matrix in a project power supply circuit × Measure Make an Internet Make something voltage with an of Things (IoT) with a 7 segment oscilloscope project display Look at an audio Measure Teach a friend Make something 15:34 input on an capacitor equivalent an electronics skill with solar panels oscilloscope series resistance řΉ W [-\\] Use a crowbar Make a motor Make a counter controller with a circuit to protect with logic gates H Bridge against over voltage 이이경 **\( \frac{1}{2} \)** Let the smoke Measure frequency Apply solder paste to out of an Arduino with a multimeter a PCB with a stencil Make something accidentally for a friend Use an Op-Amp •••• **○** Make a capacitor Make something in a circuit rocket (too much with Arduino voltage) Use fritzing  $\odot$ Let the smoke ₩# Make a project Learn to solder or TinkerCAD to out accidentally surface mount parts with a Raspberry Pi create a circuit diagram 1 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 Make a sound Use a diode to Measure 3 Make a voltage protect your circuit louder with an current with a divider to lower from reverse voltages amplifier multimeter the voltage for a project 4) Make an Turn a breadboard Turn something oscillator that circuit into a on using a sensor makes noise schematic **å**)) 4) Fix something Learn to desolder Make something Measure voltage a through hole that's broken that makes noise with a multimeter component Mig/s Get a circuit Learn to Learn to read control the brightness wrong and try a datasheet of an LED again 유 Learn to use Learn to Complete Learn Ohm's use wire strippers a breadboard an electronics kit Law V



Learn to

read a schematic



Light up an

LED for the first

time

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**HERE** 



Learn to Solder

1 tile = 1 point

Name: .