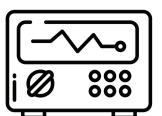
Name:

## **DEV BOARDS**

## ARDUINO, RASPBERRY PI, ESP & MORE



## 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)	(s	et your own goal)		(set your own goal)	
(set your own goal)		Enter a Hackathon, obotics competition or CTF activity		Design your own Arduino hat / Raspi Shield / Dev board		(set your own goal)
	Do an autonomous robotics project		ach a class on a dev board	M /in	Use TinyML a project (eg. Object Detection)	
Send data with LoraWAN, Nb-IOT or others		Make an open source project	<b>i</b> 2	Release a utorial on a project you've made		Create an FPGA Project
\$ //	Do a robotics Project	OSHW	Learn git	•	Make a wearable tech project with a dev board	
Debug voltage drops		Make something for gaming	<b>*</b>	Do an IoT Project	**//	Run out of memory in a project
	Modify a bootloader		Make a roject with a camera		Send data to an online server (eg. MQTT)	
Use encoders to measure motor rotation		Make an teractive art piece with a dev board		Use RFID in a project	<u></u>	Use MIDI files in a project
	Use a screen in a project		Send data irelessly using BLE	((0))	Send data wirelessly using WiFi	
Use a joystick or gamepad in a project		Make a project for everyday use	<u></u>	Fix something that's broken with a dev board	<u></u>	Use a PID Controller
	Make a project that moves		e an LED Matrix in a project		Help someone fix their code	
Build your own enclosure for a project		Detect a person with a sensor		Learn Python skills		Teach a friend Raspi
	Use an interrupt in a project		se more than ne motor in a project	<u>*</u> //	Schedule a task for Raspi	
Teach a friend Arduino		Use the real time clock for scheduling	<b>₾ ७</b>	Use LED strip in a project		Use TinkerCAD o code and simulate an arduino project
	Make a gift for someone with		e environmental sors in a project		Use WiFi to send data from an ESP board	TIIN KER GAD
Use a sensor to trigger an action	a dev board	Let the smoke ut of a dev board accidentally		Get a project vrong and try again		Use a multimeter to measure voltage or current
((0))	Use an Arduino shield		Use a Raspi hat		Make an LED blink with Python	
Use the Arduino Serial Monitor		Prototype in invention with		Use a multimeter to measure circuit continuity	♣ Ĥ	Print 'Hello World' on Raspi
	Use a servo motor in a project		Alter example Arduino code		Use Raspi command line for the first time	C:1
Learn Ohm's Law		Blink an LED	<u>∞</u> //	Flash a Raspi OS on an SD Card	C:1	Set up a Raspi for the first time
I R	Use a button or a switch in a circuit	/ /	earn to use breadboard		Learn about Raspi OS	
	d Gilodit					

START HERE



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