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	r own goal)	(set your own goal)		(set your own goal)	
(set your own goal)	><	$\langle \hspace{1cm} \rangle$		\rangle	(set your own goal)
(Set your own goal)	Enter a Hackathon, Robotics competition or CTF activity		Design your own Arduino hat / Raspi	//	(set your own goal)
	utonomous	Teach a class on	Shield / Dev board in a	Use TinyML project (eg. Object	
	Make an appr	a dev board	Release a	Detection)	Create an
LoraWAN, Nb-IOT or others	Make an open source project		utorial on a project you've made		FPGA Project
\sim	robotics OSHW oject	Learn git		Make a wearable	
Debug voltage drops	Make something	\ \\	Do an IoT	dev board	Run out of
	for gaming dify a	Make a	Project		emory in a project \
boot	loader	project with a camera	· // ;	Send data to an online server (eg. MQTT)	
Use an Arduino to burn a bootloader	Make an interactive art piece with a dev board		Use RFID files in a project	<u>^</u>	Use MIDI files in a project
	screen	Send data wirelessly using	((0))	Send data wirelessly using	7
Use a joystick	Make a project	BLE	Fix something	WiFi	Use a PID
or gamepad in a project	for everyday use	\ <u>`</u>	that's broken with a dev board	•	Controller
•	a project moves	Use an LED Matrix in a project		Help someone fix their code	
Build your own	Detect a person with a sensor		Learn Python		Teach a friend
enclosure for a project	•,10)	Use more than	skills	Schedule a task	Raspi
inap	project	one motor in a project		for Raspi	
Arduino	Use the real time clock for scheduling		Use LED strip in a project		Use TinkerCAD code and simulate
	e a gift	Use environmental		Jse WiFi to send	n arduino project
for som	e a gift eone with v board Let the smoke	sensors in a project		lata from an ESP board	Use a multimeter
to trigger an action	out of a dev board accidentally	o (v	Get a project vrong and try again		o measure voltage or current
	se an no shield	Use a Raspi hat		Make an LED link with Python	
Use the Arduino	Prototype	\ ! //	Use a multimeter to measure circuit	♣ Ĥ	Print 'Hello
Serial Monitor Use a	an invention with cardboard		continuity	Use Raspi	World' on Raspi
motor in	n a project	Alter example Arduino code		command line or the first time	
Learn Ohm's Law	Blink an LED		Flash a Raspi OS on an SD Card	c:\	Set up a Raspi or the first time
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	button H	Learn to use a breadboard		Learn about	& /
	rcuit	a preauboard		Raspi OS	
				<u> </u>	





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