## ROBOTICS

## 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) Participate in Teach a class a robotics on robotics competition Make a **Build robots** Integrate Al tutorial on a in a robot build that can work robot project together Build a robot Make a Use machine Use soft robotics waterproof that can recognize learning in a project in a design robot voice or gesture Make a robot Build a battle 也 Design a custom with metal parts bot in a team PCB for a robot Se se Build a pick Solve a problem Build a robot Make a robot and place robot that can balance with a robot build with LiDAR eg. LumenPnP ((0))Use 盟 Build a large open Build a drawing kinematics in source robot, eg. machine or art robot a project InMoov 幕 Simulate your Join a robotics Build a drone Build an robot in software club or group autonomous robot H eg. Gazebo or V-REP Build a racing Program a robot Make a robot with the Robot robot, eg. dance Operating System Donkeycar Make mods Contribute TI Use an LED C:V Build a robot to an off the shelf to an open source matrix or screen with a camera robot or part robotics project in a robot OSHW ••••• 0 Rebuild a robot Build a robot Use pneumatics after it breaks with wheels or in a build tracks Send Build a floating Use upcycled Use OpenCV commands e-waste in a project robot in a project wirelessly 23 <u>40</u> Read a book Use a PID 0 Build a <u></u> or attend a controller in a companion robot workshop project Build a Teach a friend Write software CNC a robot fighting robot a robotics skill to run on a robot e.g. Sumo or Battlebots part 盟 Use a game Use an IMU Calibrate a controller in in a project robot build a project Build a biped Make a CAD 3D print Visit a robot robot eg. model of a robot a robot part restaurant Ottobot project Learn a CAD Use an infrared Program a robot software sensor in a project arm Lc Build a robot **((0))** Build a line Learn to use Laser cut following robot a multimeter a robot part with more than one motor \* (바) Use Raspberry Learn about Make a PWM control Pi in a project cardboard robot Use an Blink a light <del>~~~</del> Learn to solder Control a ultrasonic sensor with Arduino and soldering safety servo motor in a project  $\odot$ Build a robot ((0))Make a Learn about cardboard from a kit different kinds of motors automata 1 tile = 1 point 



**HERE** 

**START** 

Name: .