PCB DESIGN 101

OCT 21ST

12PM - 3PM

POWERED BY:

Come join us for a printed circuit board design (PCB) workshop. From the basics to designing your own PCB, learn how to take an idea from prototype to production.
Design, Make, and Take (Part 1 of 2)
Create a PCB Light-up Pin, Badge, or Ornament
Sunday, October 21st from 12:00-3:00pm
Lunch is provided

Ever wondered how the boards and chips work inside of your laptop and smartphone?

This October and November, UTeach Maker will be hosting a two-part workshop with Patchr.io. During this workshop you will learn how to create simple battery-operated circuits using breadboards and other prototyping techniques. As part of this workshop Patchr.io will demonstrate their software and you will get to design your own printed circuit board (PCB) to make a light-up pin, badge, or holiday ornament.

What is a printed circuit board (PCB)?

A printed circuit board (PCB) uses one or more layers of conductive material to create a permanent circuit that is less prone to breaking. Kind of like a layer cake or lasagna- there are alternating layers of different materials that are laminated together with heat and adhesive such that the result is a single object that can function as an electrical circuit.

What is a breadboard?

Breadboards allow for wires and other electrical components, such as microprocessors, buttons, and LEDs, to be connected without the need to soldering. During the October workshop you will learn how a breadboard works and prototype the circuit for your PCB, which will be printed for you to permanently solder during Part 2 of the workshop on Sunday, November 18th from 12:00-3:00pm.