Design your own Pi HAT, attach custom circuitry and otherwise dress your Raspberry Pi with this jaunty prototyping HAT kit with EEPROM

This Perma-Proto inspired plug in daughter board has a grid of 0.1" prototyping soldering holes for attaching chips, resistors, LED, potentiometers and more. The holes are connected underneath with traces to mimic the solderless breadboards with which you're familiar. There's also long power strips for +3V, +5V and Ground connections to the Pi. Near the top nearly every pin you could want to connect to the Pi has been broken out.

It comes with a printed circuit board and a single 2x20 GPIO Header for Raspberry Pi to put your Perma-Proto on top of your Raspberry Pi.

This version comes with a blank 24C32 I2C EEPROM soldered on and connected to the EEDAT/EECLK lines so you cannot 'stack' it with other HATs. However, you can program in the EEPROM to make a self-identifying setup using the Pi Foundations' HAT specs - please note the specifications are still under development.

You can customize your Perma-Proto setup using a standard 2x20 stacking header or extra tall 2x20 stacking header. You can also swap out the 2x20 header with a slim 2x20 type if you want it to sit closer to the Pi, or an extra tall one if you want it to sit above the USB/Ethernet ports.

A bit of light soldering is required to attach the header to the PCB.

This hat is only compatible with the Raspberry Pi Zero, A+, B+, 2, 3, etc. (any Pi with 2x20 connector)! It will not work with the Raspberry Pi Model A or B with 2x13 connectors

- Header Dimensions: 5mm x 51mm x 12mm / 0.2" x 2" x 0.5"
- PCB Dimensions: 66mm x 57mm x 2mm / 2.6" x 2.2" x 0.1"