

Re: wrap up PCB camp; it's soldering time

2 messages

Valvano, **Jonathan W** < Jonathan. Valvano@engr.utexas.edu>
To: "Valvano, Jonathan W" < Jonathan. Valvano@engr.utexas.edu>

Fri, Apr 2, 2021 at 12:05 PM

There is a valuable lesson to learn... something always goes wrong with the first PCB

My OLED is has the pins in this order Vcc,Gnd,SCL,SDA Many of the EE319K kits have the pins in order Gnd,Vss,SCL,SDA

You must connect GND to GND and Vcc to Vcc

similarly there are two switch types in the EE319K world. The switches are the same size, but the pins are rotated. Use your ohmmeter to see across which pins the switch exists. You may have to solder the switch rotated 90 deg from what looks natural

come to OH if you have any questions

From: Valvano, Jonathan W

Sent: Tuesday, March 30, 2021 2:47 PM

To: Valvano, Jonathan W < Jonathan. Valvano@engr.utexas.edu>

Subject: wrap up PCB camp; it's soldering time

All PCBs should have been delivered

- 1) for those teams marked EER pickup, the PCBs and parts kits can be picked up in EER 1 ECE lab checkout.
- 2) for those teams not marked EER pickup, the PCBs should have arrived DHL (tracking number on google sheet) and I mailed USPS yesterday parts kits

https://docs.google.com/spreadsheets/d/1JlcZKAabRoVn5QLbOWWUoslQ9vHJUVuZPtwNsVPdiMY/edit#gid=1957258355

In both cases you will need to distribute PCBs and parts to other team members

The parts kit is two 2 by 20 male-male headers, two 1 by 3 male-male header, two 2-pin shorting jumper four 1 in 2-56 standoff, and four 2-56 screws"

If you wish to solder in EER, go to the checkout desk in EER1 (south tower) and borrow a soldering iron, cutters and solder.

Soldering

Collect solder, soldering iron, cutter, solder paste, patience Collect all parts: use an ohmmeter to check resistor values https://www.instructables.com/Simple-PCB-soldering/
https://www.youtube.com/watch?v=AqvHogekDI4

Solder the parts in reverse size order (resistors first and OLED last)

Thanks and we will see you around EER when this craziness is over

 Wed, Apr 7, 2021 at 1:06 PM

your OLED may be correct Vcc, Gnd, SCL, SDA like mine, in which case you can simply solder it

your OLED may be different Gnd,Vcc,SCL,SDA

I have two ways to fix the PCB OLED error 1)if you have male-female wire set like this

https://www.amazon.com/EDGELEC-Breadboard-Optional-Assorted-Multicolored/dp/B07GD2BWPY

you can solder 4 male sides to the PCB and connect the female side to the correct pins on the OLED 2) we can just order an OLED with the correct pinout

https://www.amazon.com/Display-0-96inch-SSD1306-Arduino-Raspberry/dp/B0871KW7BD/https://www.amazon.com/128X64-Display-SSD1306-Arduino-Raspberry/dp/B085WCRS7C/

if you have the wrong OLED and want to solder it down, I can

- a) put a correct OLED in EER1 checkout
- b) mail you one (using the same address in googledoc);

give me your response in column N as ok (have correct OLED or can wire with male-female), pickup EER(want to pickup new OLED in EER) or mail(want to be mailed a new OLED)

https://docs.google.com/spreadsheets/d/1JlcZKAabRoVn5QLbOWWUosIQ9vHJUVuZPtwNsVPdiMY/edit#gid=1957258355

Also check the orientation of the switches. Some switches may need to be rotated 90 deg before soldering

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