

ROBOTICS II Lesson for 27 April-03 May 2020

Hey Guys!! Hopefully I will have been to contact each of you by e-mail or phone. There is new carpet in the building. I started moving some stuff into our new robotics lab so I could get some pictures for the website.

It looks like four of you made it into TinkerCAD. For the rest of you, please try to get in, if possible.

I have been busy doing some of my own robotics/electronics projects at home. We can add some of this stuff to next year's classes.

For this week's assignment, I want to see if you remember how to measure current.

Log into your TinkerCAD account and create a new circuit. You will need a breadboard, 9V battery, bush button switch, NPN transistor, light bulb, and two multimeters. Wire the battery positive to one side of the switch and to the collector of the transistor. Wire the other side of the switch to the base of the transistor. Wire the emitter to one connection of the light bulb and battery negative to the other connection. Start simulation.

The bulb should light when the button is pressed.

If this works, then stop the simulation, and wire in the two multimeters to measure the current through the switch and through the light bulb. Please e-mail your answers or if you need help.

Keep safe and healthy!

Mr. C