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This week I started implementing the electrical and software components of the robot. I was able to build and test the circuit for driving the solenoids that will play the xylophone in the lab and then started making the more permanent version. Currently the circuits are completed for 8 of the 12 solenoids. I also found code that has examples of how to communicate with the Arduino using its serial port. This will be necessary to communicate between the artificial intelligence and color sensing software being run on the laptop and the code to drive the solenoids and read the IR sensor being run on the Arduino as well as being able to read the MIDI keyboard input.