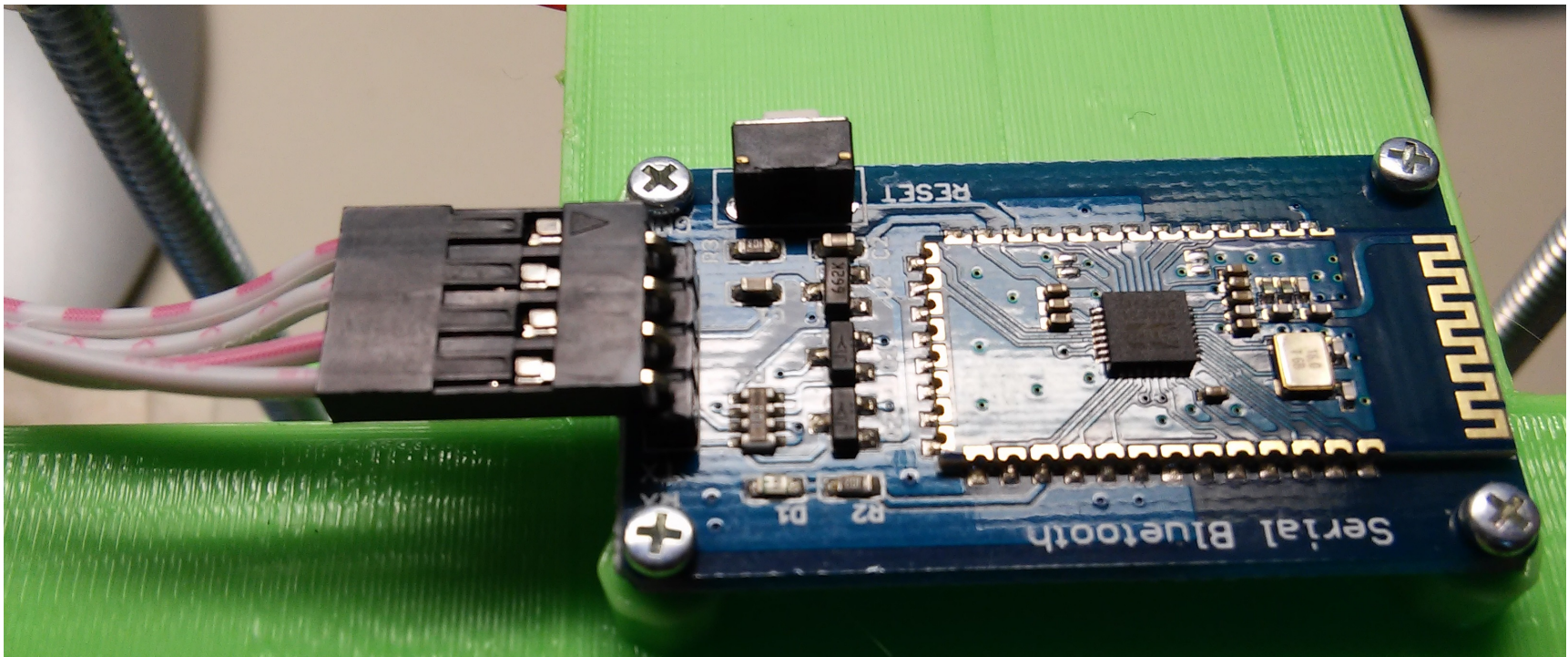


Adding Bluetooth to Bbot

1. Attach BT module to bot.
2. Load “blink” app onto Arduino.
3. Hookup power and com lines.
4. Setup BT module.
5. Pair with BT module and test.
6. Finishing up.

Attach BT Module to bot

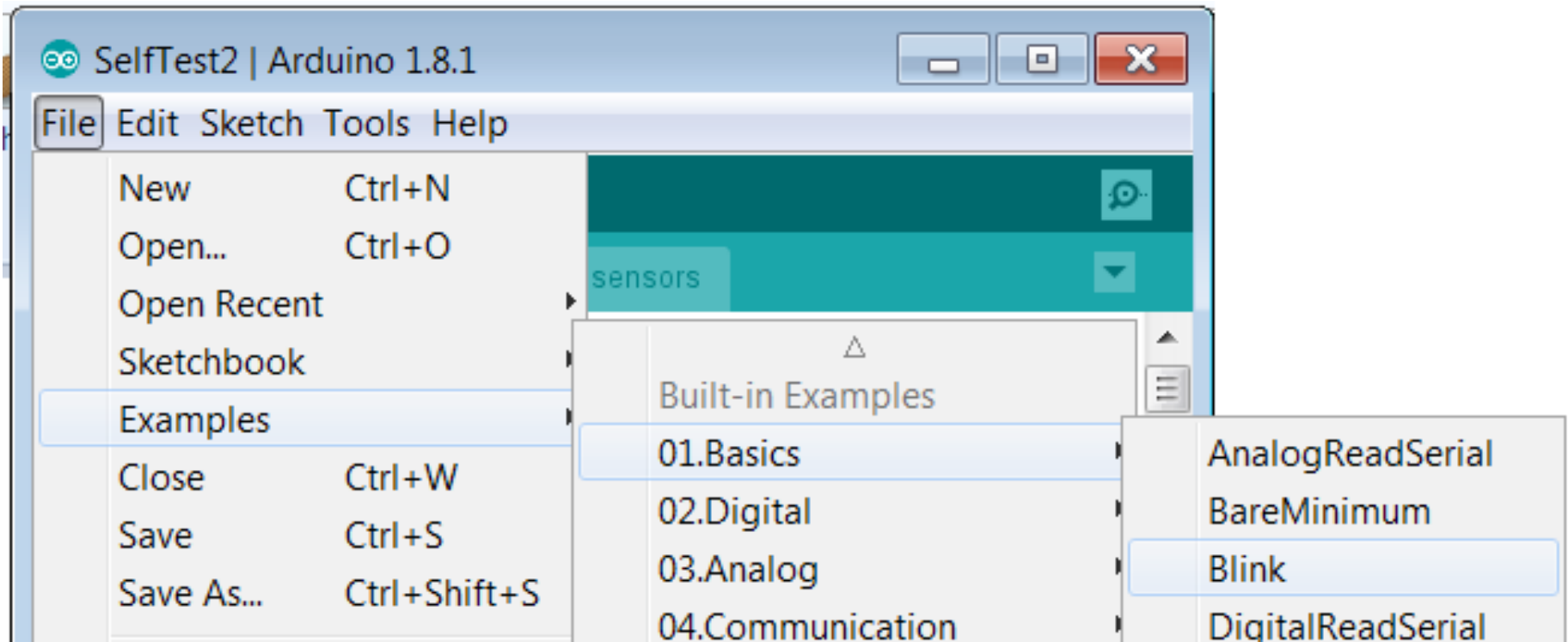
- Use 4 #1 x ¼ screws to attach the module under the middle plate as shown below:



- The cable should come out on the same side as the battery wires, with the wire marked by the short line/space pattern towards the inside.

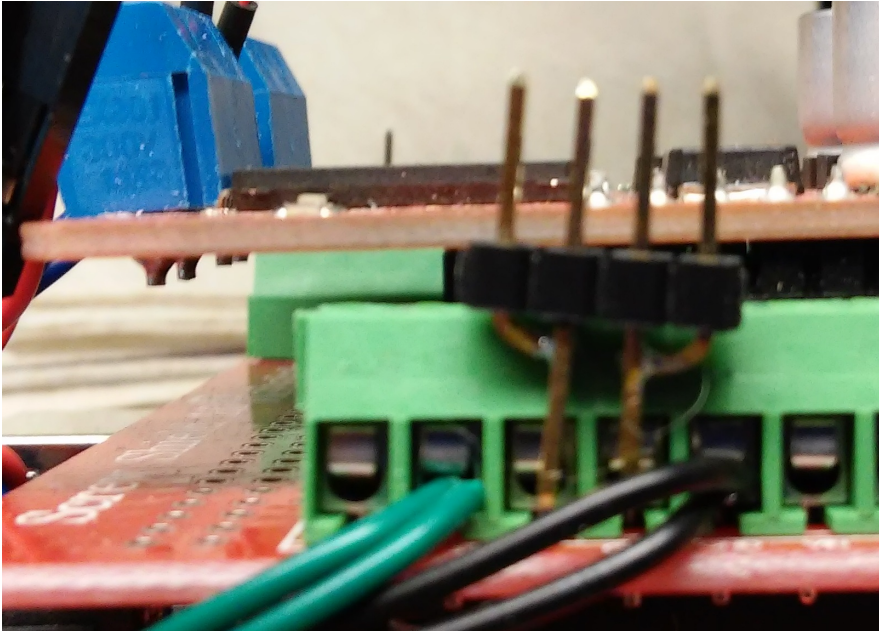
Load “Blink App”

- We are going to use the Arduino serial monitor to talk directly to the BT module.
- Any serial data from the Arduino will interfere with this.
- The “blink” app doesn’t use the serial port at all.
- Load the app from the examples as shown below:



Hookup Power And Com

- Install dual “Y” adapter on +5V and Gnd pins.

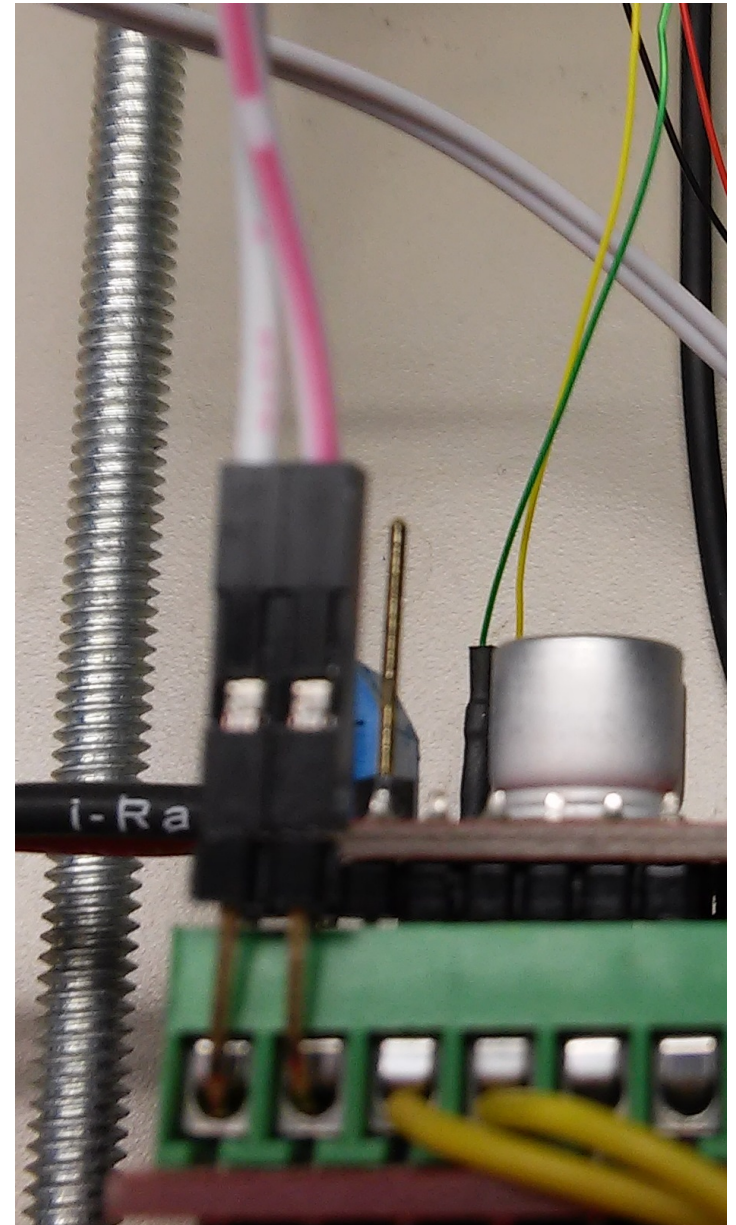


- Hookup +5V and Gnd wires.



Hookup Power And Com

- Install the two pin header and Hookup the TX and RX wires.
- NOTE: The RX and TX are being hooked up backwards while we setup the module. This is so we can talk to it directly with the serial monitor.
- We will fix this later.



Setup BT Module

- Connect USB cable and open serial monitor.
- Set to 9600BAUD, Both NL & CR.
- Type AT and hit enter, you should see “OK” (You may need to do this a couple of times)
- Enter the following command:
 - AT+BAUD8
- Switch the BAUD rate to 115200 and try “AT” again.
- Enter the following commands:
 - AT+NAME<Name for bot>
 - AT+PIN<4 digit PIN code>
 - AT+RESET

Setup BT Module

- Other AT commands:
 - AT+DEFAULTS Reset all settings to defaults
 - AT+LADDR Show BT MAC address
 - AT+VERSION Show firmware/BT version

Pair And Test

- Pair to the BT module using the name and PIN code you set in the previous step.
- Use a serial terminal program to send/receive text to/from the Arduino serial monitor.

Finishing Up

- Remove the com wires.
- You can't program over USB with them connected.
- You can program over BT, but it's a bit tricky.