

Nucleo Hardware Setup

Project Board Setup

Last updated 6/30/22

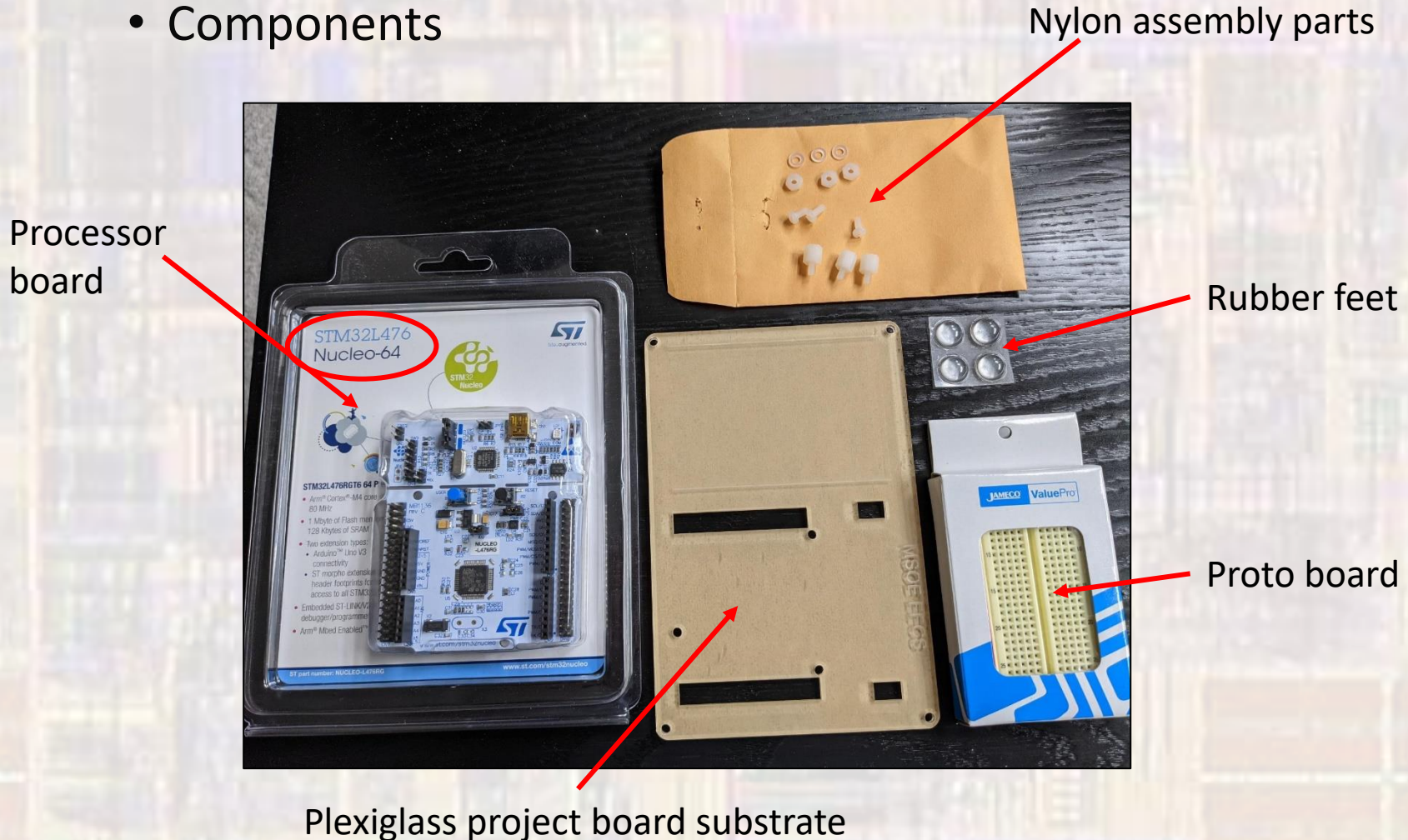
EE2905 Project Board Setup

- Processor Board

Read through the entire set of instructions **BEFORE** starting

EE2905 Project Board Setup

- Project Board Assembly
 - Components



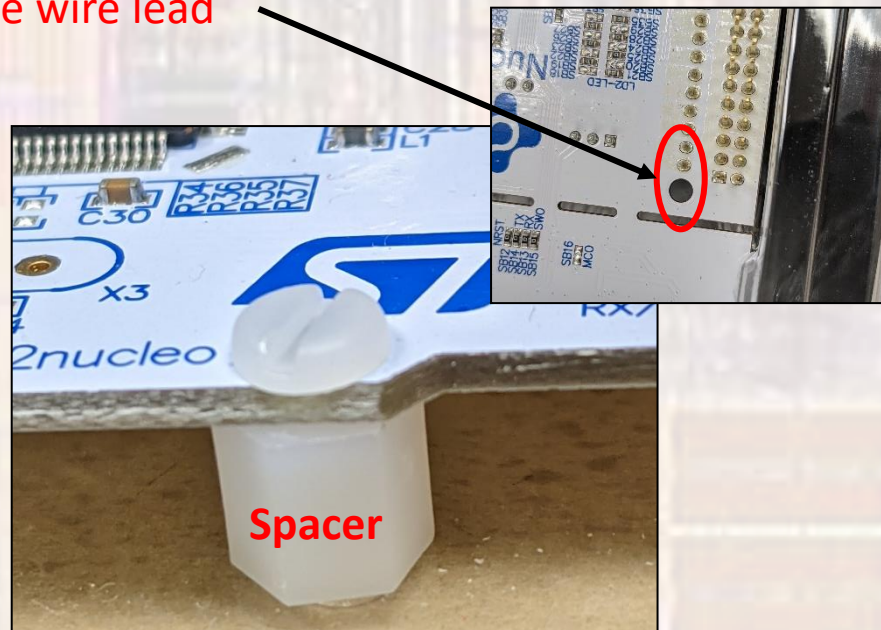
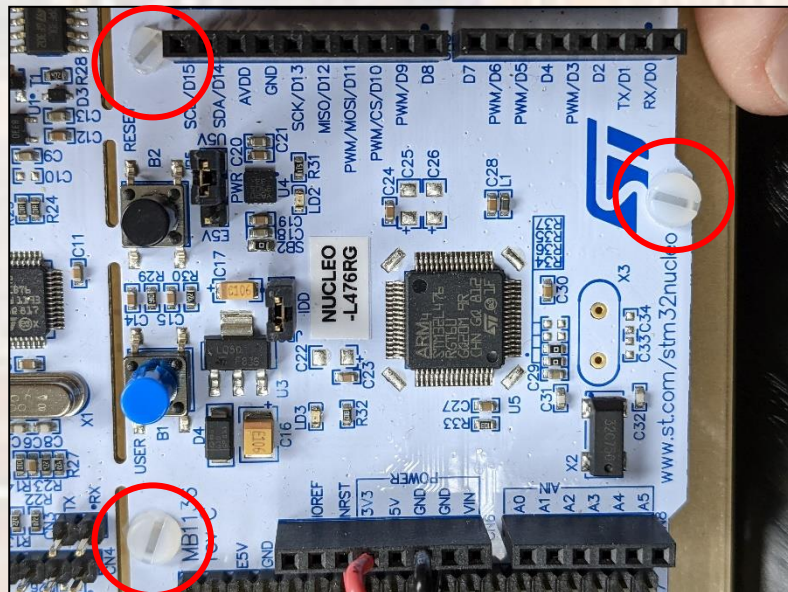
EE2905 Project Board Setup

- Project Board Assembly

WARNING – Try not to touch any of the metal posts, or solder joints on your processor board – electrostatic discharge can easily damage pins or components

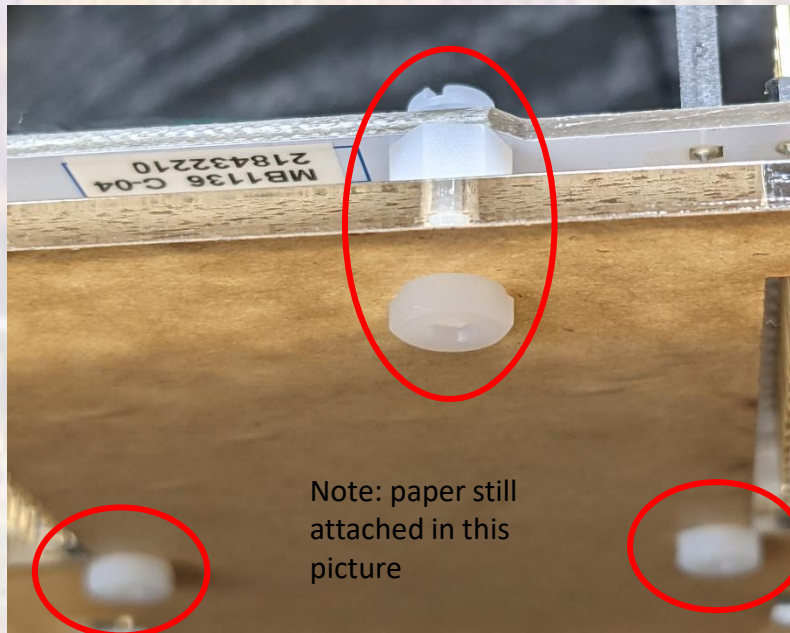
EE2905 Project Board Setup

- Project Board Assembly
 - Step 2 – screw attachment
 - Insert the 3 screws (the trimmed one goes next to the D15 label) through the processor board from the top
 - Attach the 3 spacers to the screws from the bottom of the processor board
 - Use a screwdriver on the trimmed screw since spinning the spacer may damage the through-hole wire lead



EE2905 Project Board Setup

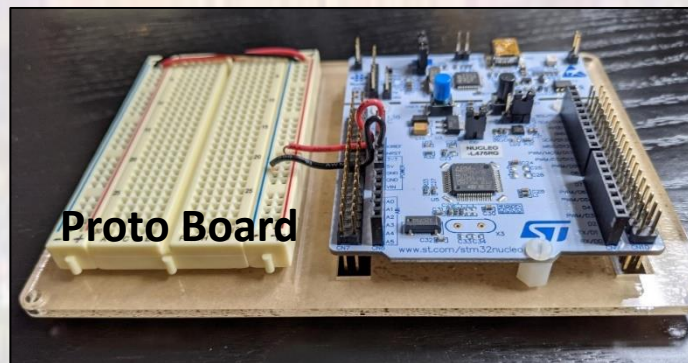
- Project Board Assembly
 - Step 3 – processor board attachment
 - Place the processor board with spacers onto the “MSOE EECS” side of the plexiglass project board
 - Attach the processor board using the 3 nylon nuts



Optional: remove the paper backing if you wish

EE2905 Project Board Setup

- Project Board Assembly
 - Step 4 – proto board
 - Open the proto board box (recycle the box and metal sheet)
 - Remove the protective paper from the double-sided tape
 - Place the proto board onto the top of the project board between the inscribed lines

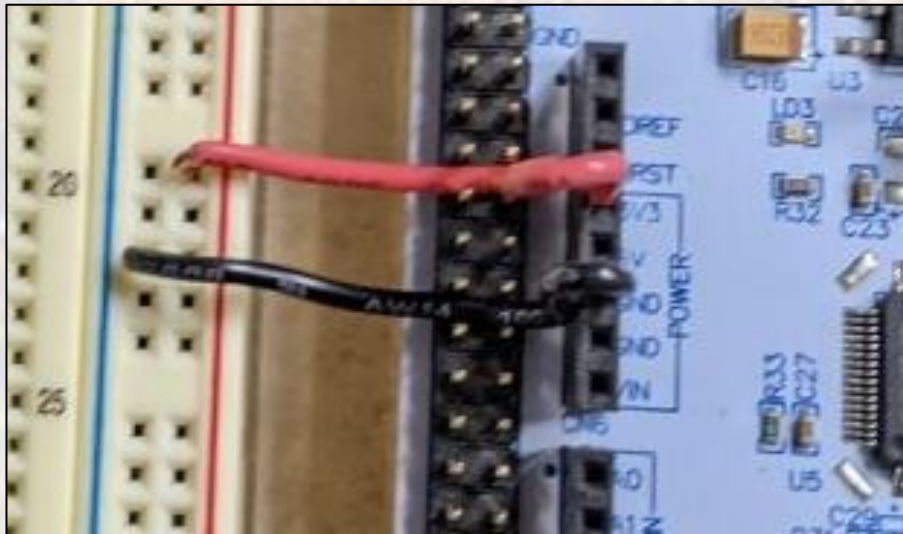


Ignore the wires for now

- Step 5 – rubber feet
 - Attach the rubber feet to the bottom of the project board

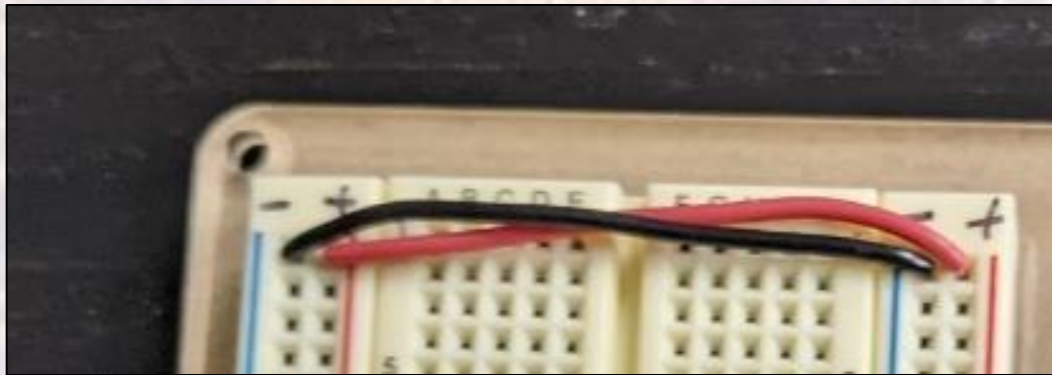
EE2905 Project Board Setup

- Project Board Assembly
 - Step 6 – electrical
 - Cut 2 pcs of wire (or use the wires in the kit)
 - Connect the red row on the proto board closest to the processor board to the 3.3v socket on the processor board
 - Connect the blue row on the proto board closest to the processor board to the gnd socket on the processor board



EE2905 Project Board Setup

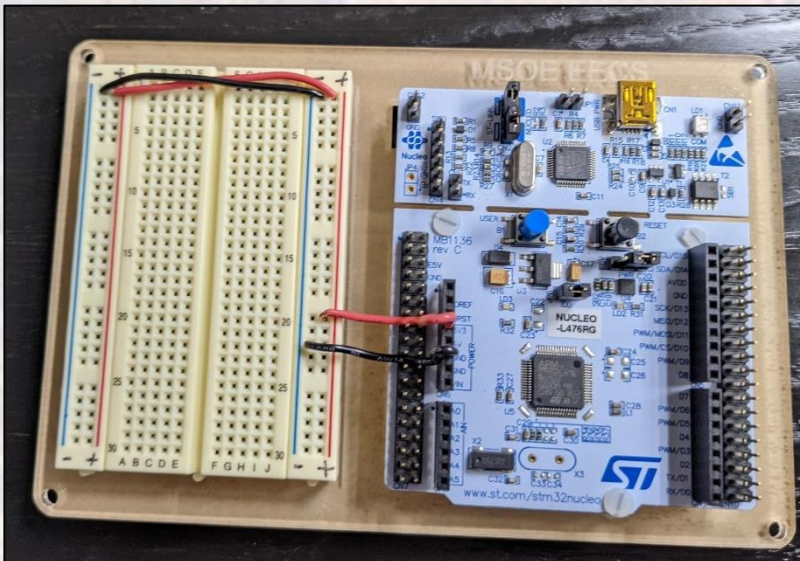
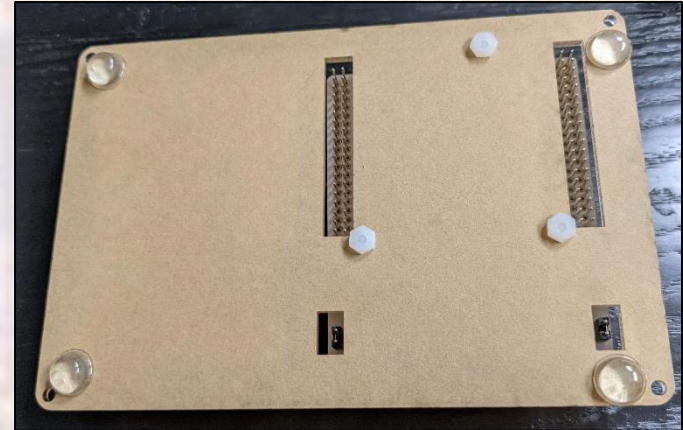
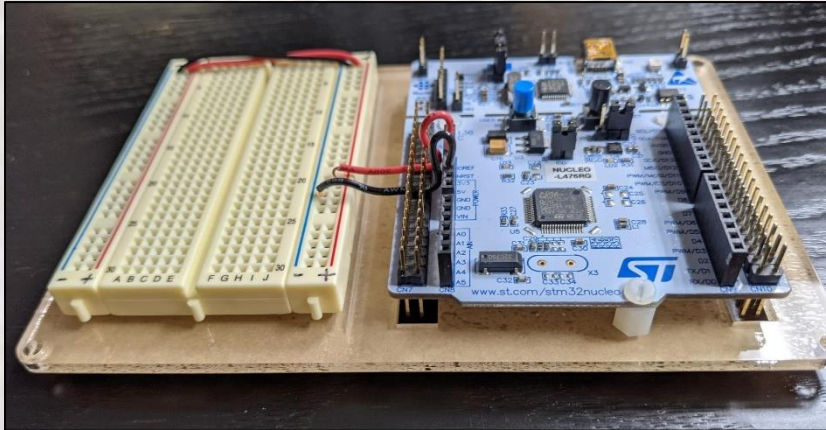
- Project Board Assembly
 - Step 6 – electrical – cont'd
 - Cut 2 pcs of wire (or use the wires in the kit)
 - On one end of the proto board – connect the 2 red rows together
 - On one end of the proto board – connect the 2 blue rows together



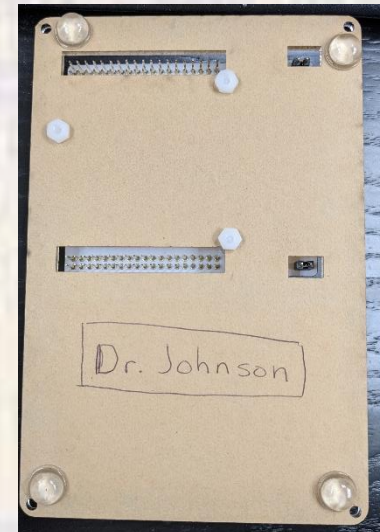
- Label the red rows + using a sharpie – this is 3.3V
- Label the blue rows – using a sharpie – this is Gnd

EE2905 Project Board Setup

- Project Board Assembly



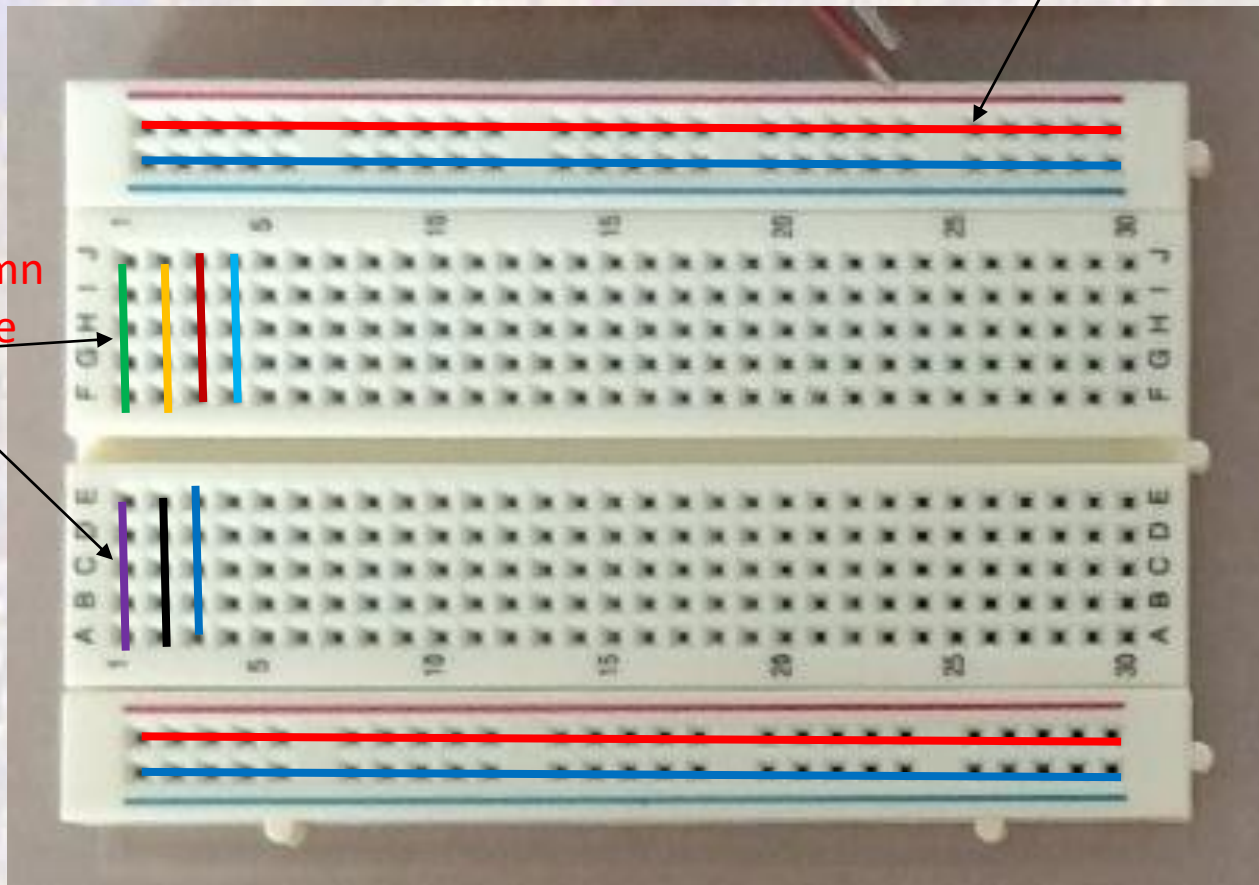
Label your board



EE2905 Project Board Setup

- Proto Board Connections

Each long row is a shorted wire



Each short column is a shorted wire