

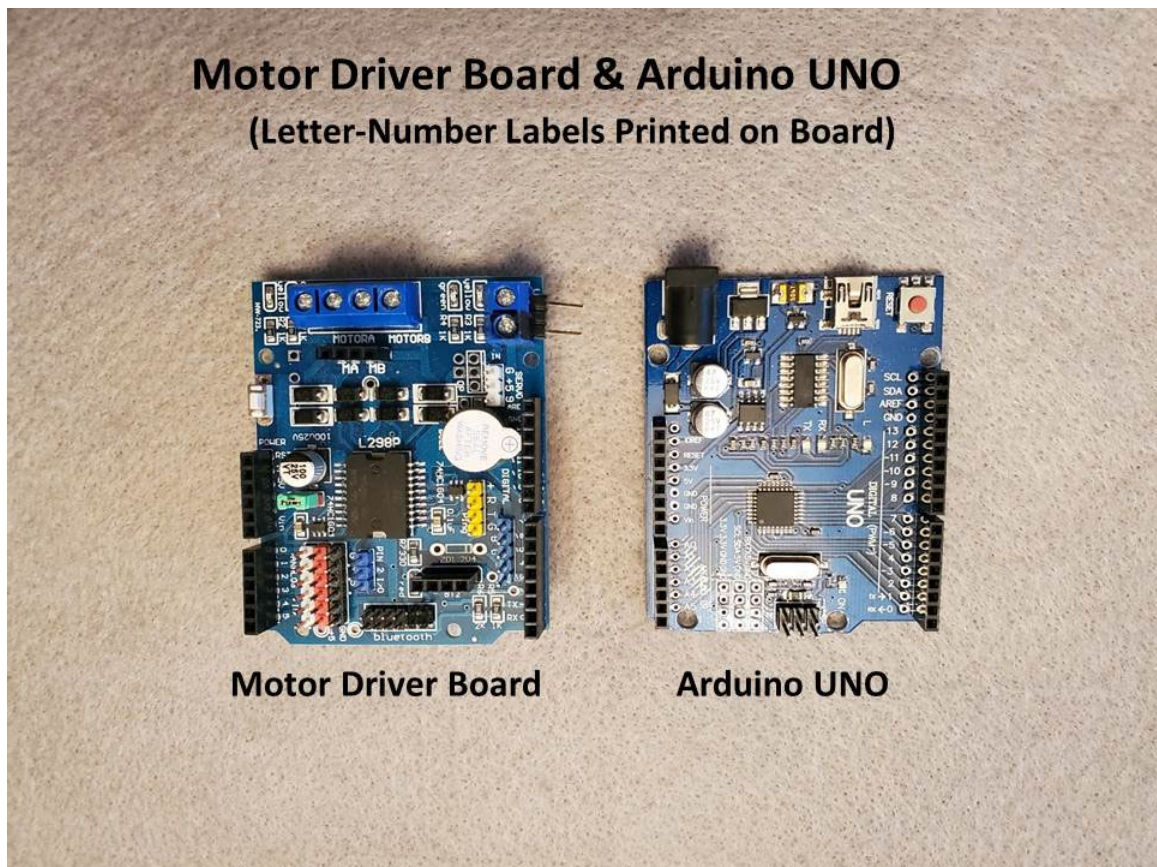
**Rover Camera Mount Assembly
Jackson State University MARRS STEM Workshop
February 27, 2021**

Objective: Complete the Camera Mount assembly and process successfully.

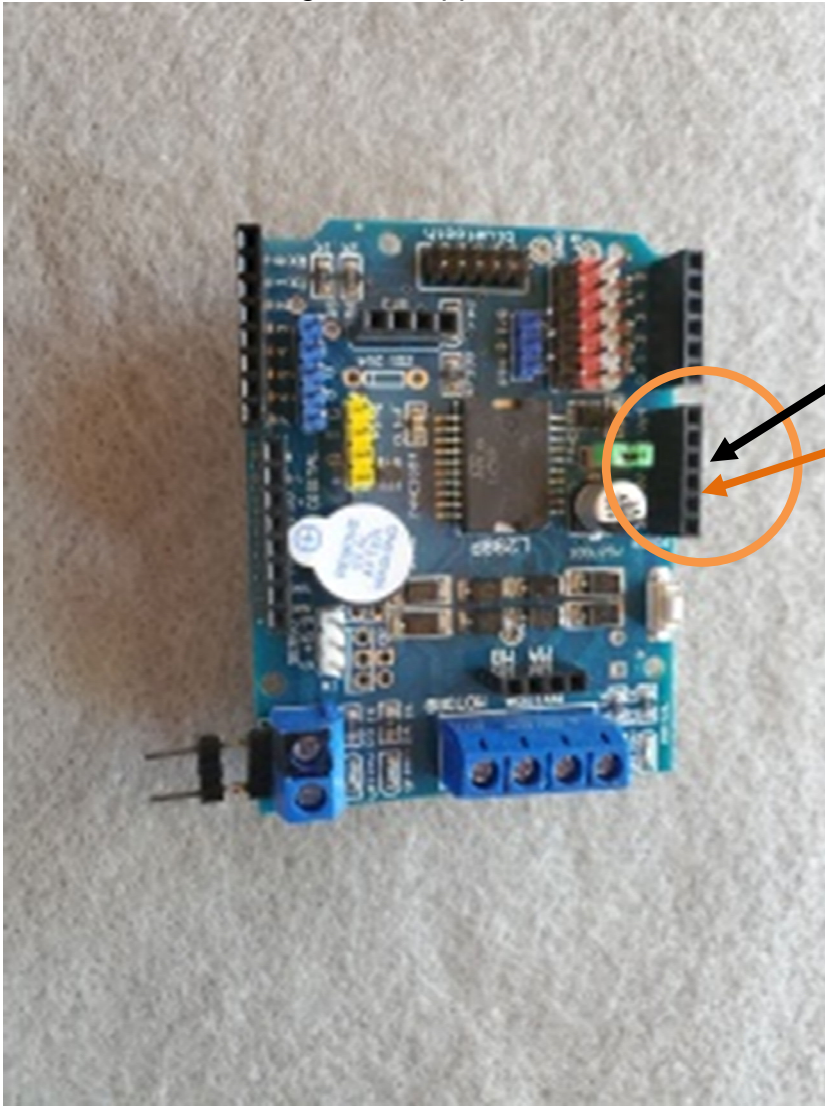
Tools and materials: Needle nose pliers, Phillip's screwdriver, camera parts kit.

8. Camera to Driver Board Connections

- (1) The photo shown below shows the Arduino UNO board and Rover Motor Driver Board as individual “boards.” These two boards are shipped assembled as a “sandwich.” You will need to separate the two boards to begin the assembly of the Rover. The motor driver board pins are inserted into the Arduino sockets and align correctly when inserted properly. The driver board and the Arduino UNO will be assembled later.



(2) The photo shown below shows the connection of power wires between the Rover Driver Board and Stepper Control Boards. The connections are labeled as **+5V** and **GND**. Use caution in making this connection! The wrong connection will damage the stepper driver boards.



GND

+5V

(3) The next photo shows the actual connection on the Rover Driver Board. The GND pin is placed in the third socket "hole" labeled as "GND." The **+5** (**ORANGE wire**) is placed in the fourth socket "connection" labeled as "+5." as shown.

