Real-Time Current Sensing Block Diagram

6V

Current Sensor INA169
- V_+
- V_{out}
- V_-

LD293 Motor controller
- V_{cc2}

Arduino With MatLab
- A_2
- A_0
- A_1

Set Pot

Feed Back Pot
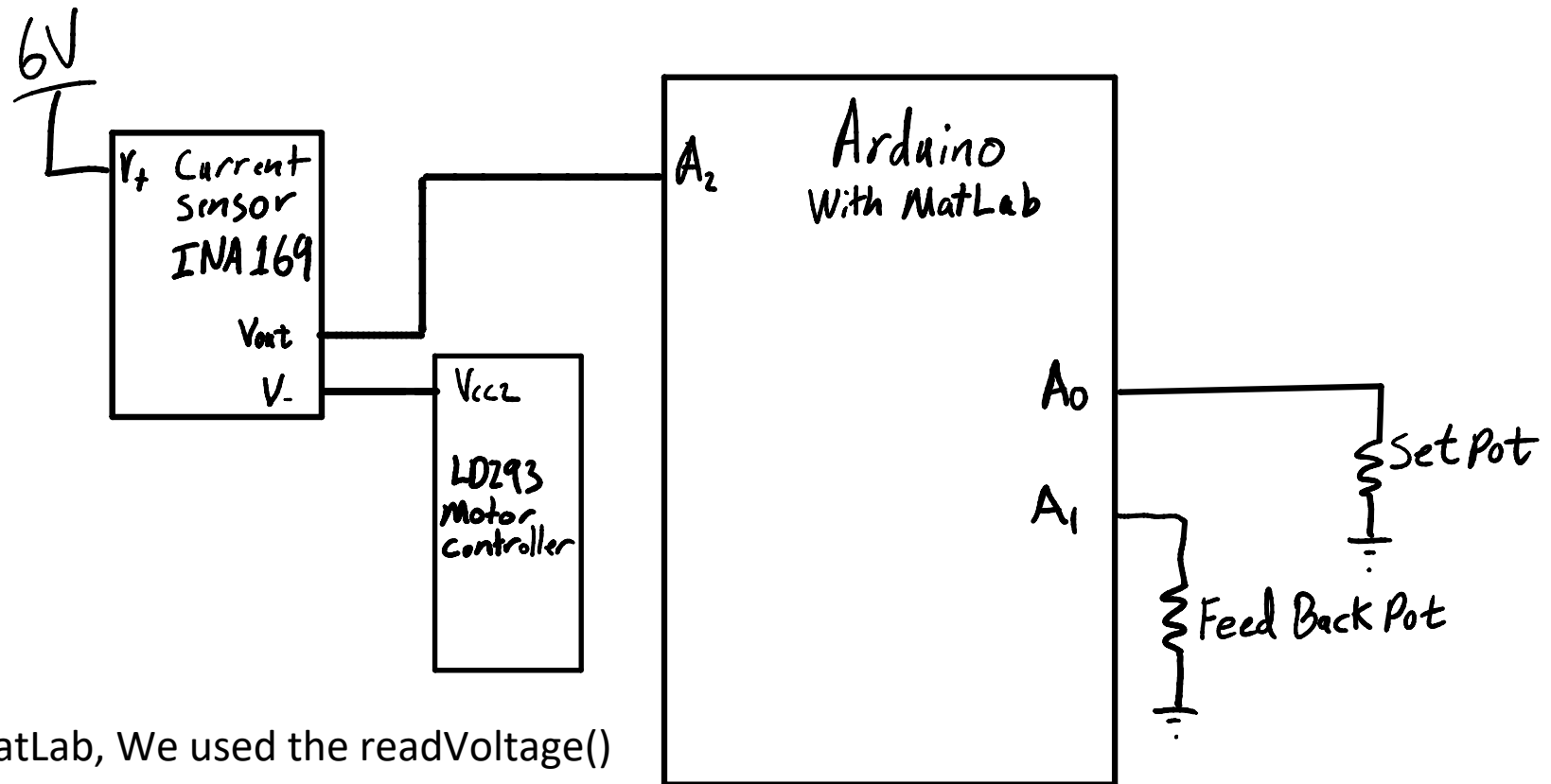
*In MatLab, We used the readVoltage()
function to read the voltage values at
A0, A1, and A2. There Voltages were used
 to create our plots.