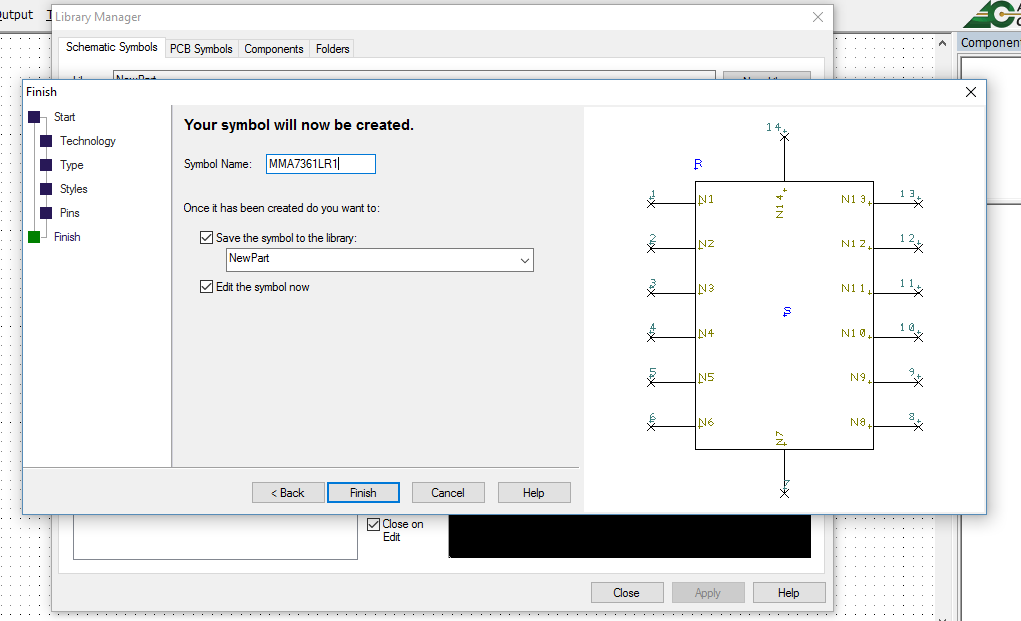
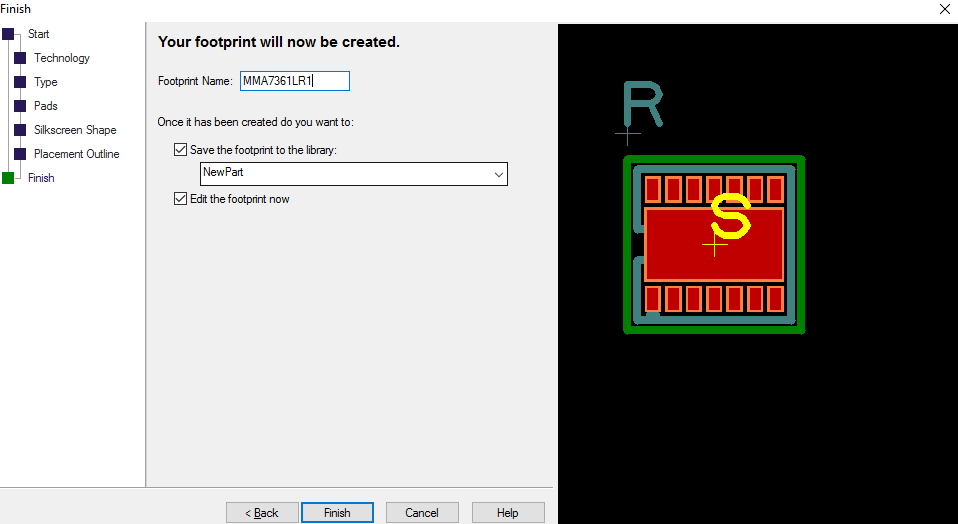
1. **OBJECTIVES**

See the requirements document. Note: we chose to do the PCB layout of lab 5 (piano lab)

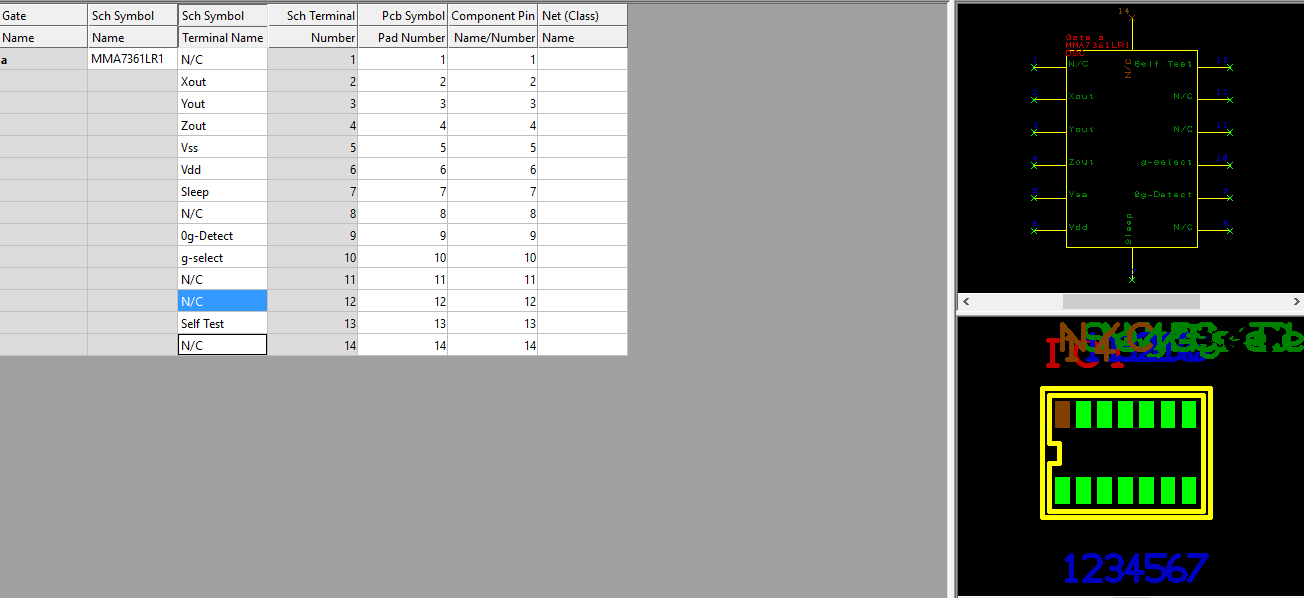
1. **HARDWARE DESIGN**
   1. See the battery datasheet // insert the battery name here
   2. See the Hammond 1519E datasheet (the standard box provided by Dr. Valvano)
   3. New component we created



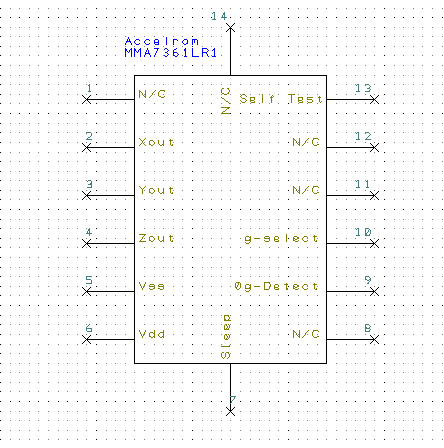
*Figure 1: MMA7631LR1 (accelerometer) component in the Schematic Symbols editor*



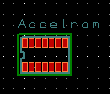
*Figure 2: MMA7631LR1 (accelerometer) component in the PCB Symbols editor*



*Figure 3: MMA7631LR1 (accelerometer) component in the Components editor*



*Figure 4: shows that our component can be added from the library to an SCH file*



*Figure 5: shows that our component can be added from the library to a PCB file*

* 1. Mechanical drawings
  2. See the schematic file of our final circuit
  3. Cardboard mockup here

1. **SOFTWARE DESIGN**

None

1. **MEASUREMENT DATA**
   1. See the Lab6\_BOM excel file. Didn’t add current yet
   2. Explain how you chose the battery
3. **ANALYSIS AND DISCUSSION**
   1. Explain the testing procedure you would suggest for the system