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 Samsung Galaxy Note i717/T879 Replacement Battery info sheet

****

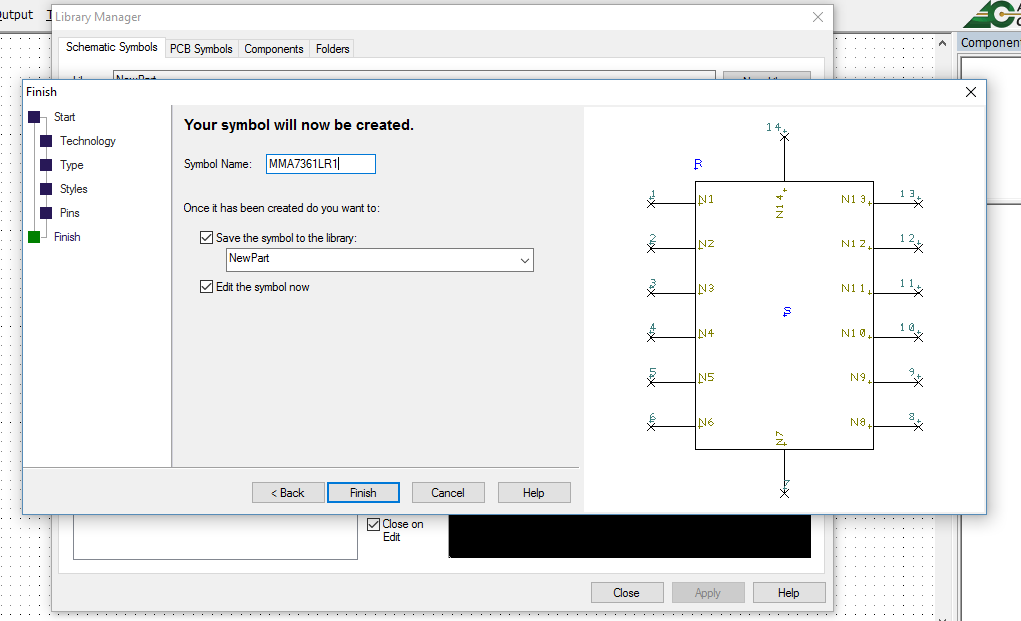
*Figure ####: Samsung Galaxy Note i717/T879 replacement battery*

* 1. See the Hammond 1519E datasheet

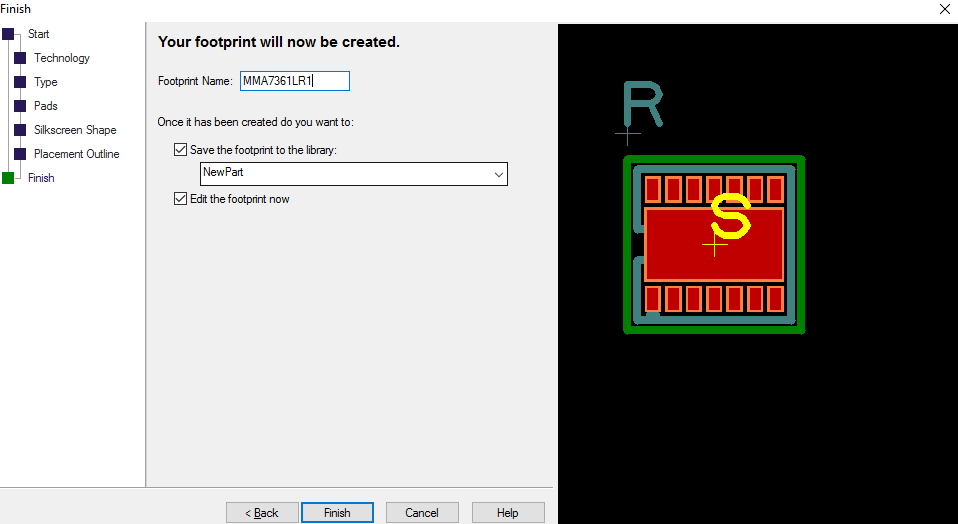


*Figure ####: Hammond 1519E box (standard box provided by Dr. Valvano)*

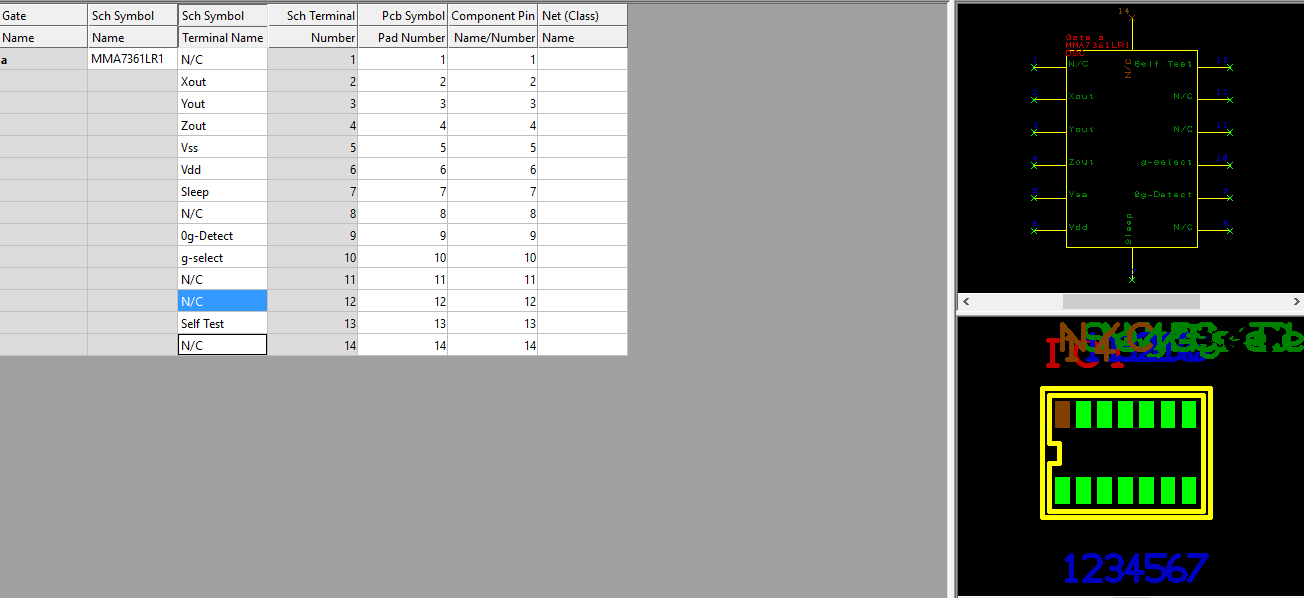
* 1. New component we created



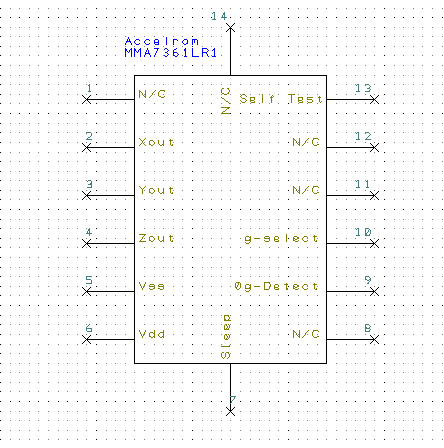
*Figure 1: MMA7631LR1 (accelerometer) component in the Schematic Symbols editor*



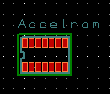
*Figure 2: MMA7631LR1 (accelerometer) component in the PCB Symbols editor*



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

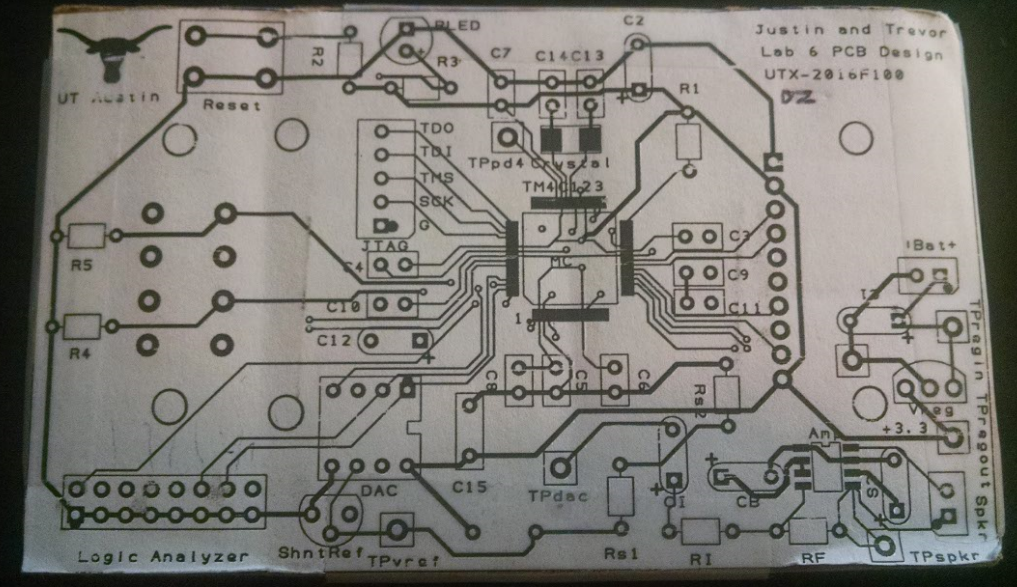


*Figure 4: shows that our component can be added from the library to an SCH file*

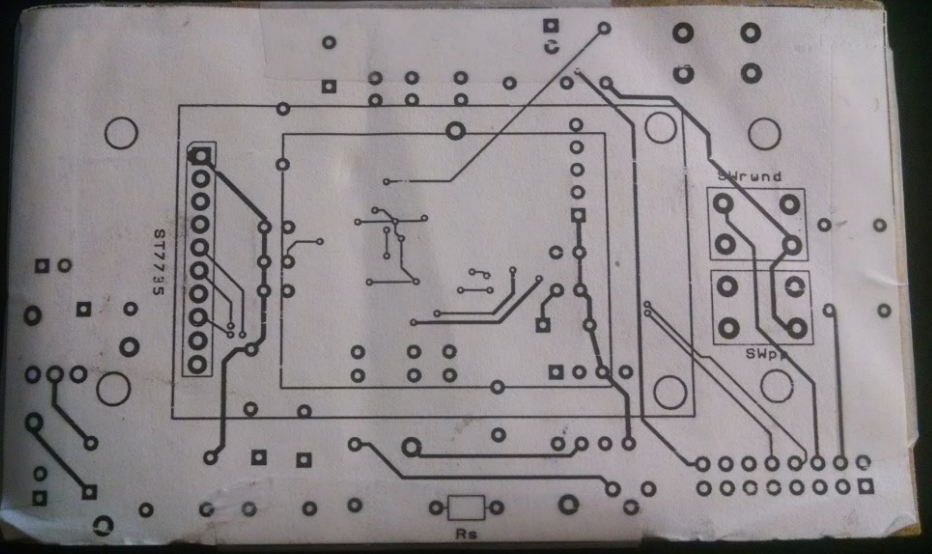


*Figure 5: shows that our component can be added from the library to a PCB file*

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



*Figure ####: top copper/silk on top*



*Figure ####: bottom copper/silk on bottom*

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
2. **ANALYSIS AND DISCUSSION**
   1. Explain the testing procedure you would suggest for the system