

Figure 1: Wiring Diagram Note the difference between VO and VU. Also be careful to properly orient the BJT transistor (see Fig. 3).

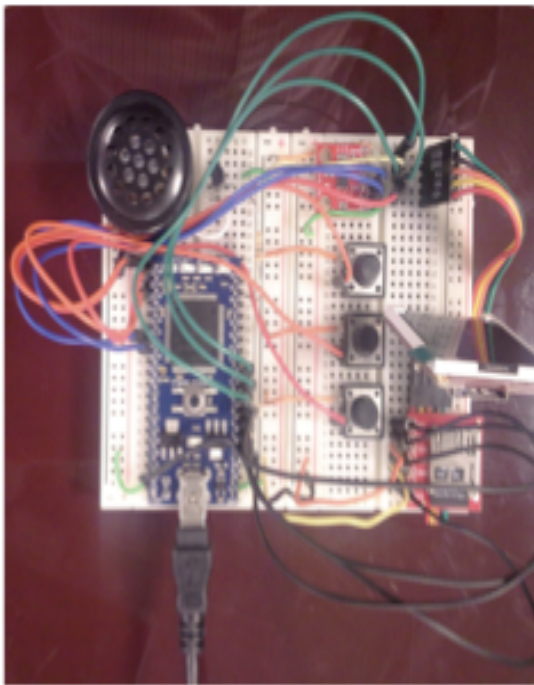
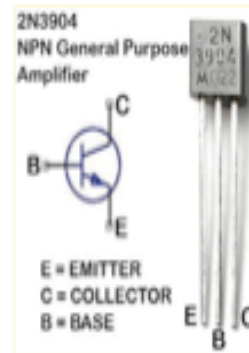


Figure 2: Completed Circuit



Please note the proper orientation of the BJT transistor.

Figure 3: BJT Transistor

**Task 5.A:** The first step is to wire up the components that are provided with the mbed. Follow the diagram in Figure 1 to wire the mbed microcontroller to each of the components that we will be using in this project. **Note:** The speaker is connected to pin 18 in the schematic (via a BJT). Change the wire connected to pin 18 to pin 26 to use PWM audio in the audio test below in Task