README

NOTE: We are currently keeping up-to-date supplementary material at: https://github.com/spenceraxani/Desktop-Muon-Detector.

This DSpace submission will remain active but no longer be updated.

The following describes the files contained in the supplementary material.
Purchasing_list
- This excel file lists all the components used in the project, as well as provides url locations for where they can be purchased and the price.
/Arduino/Importing_data.py
- A simple python script to read data from the Arduino. Requires the user to input the name of the ComPort that the USB connection is plugged in to.
/Arduino/Arduino_code.
- Code to upload to the Arduino Nano micro-controller. Requires libraries.
/Arduino/Library_list
- A list of all the required libraries. These can be installed in the Arduino IDE.
/Light-Tight Enclosure/LightTightEnclosureBox.pdf
- Light-tight enclosure box CAD drawing
/Light-Tight Enclosure/LightTightEnclosureLid.pdf
- Light-tight enclosure lid CAD drawing
/Light-Tight Enclosure/LightTightEnclosureBoxCNC.dwg/stp
- CNC files
/OLEDScreenCase/OLEDScreenCase.stp
- File for programing the 3D printer to print the OLED screen protective case.
/PCBFiles/SMT_reference.xlxs
- The component reference numbers for the full circuit. Tells you what values of components to put where.
/PCBFiles/MAIN_PCB.zip
- This zip file contains the Gerber files to print the MAIN PCB. This board requires a 5x5 cm PCB.
/PCBFiles/SiPM_PCB.zip
- This zip file contains the Gerber files to print the SiPM PCB. This board requires a 11x50 mm PCB.