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ECE 49022

Team 17: Blind Mice

Week of February 3, 2020

What have I accomplished recently:

* Drafting out the Sub-system Block Diagram
* Outlining specifications for my sub-system to function

What am I working on now:

* Programming the STM32F413ZH microcontroller to turn on its LED located at pin PA5 when its user push button, located at pin PC13, is pressed and turn off when the push button is pressed again. This simple test is for the purpose of reviewing how to program push buttons to change the state of an output variable, for example an LED light, so that a similar process can be applied for making user push buttons function in changing the state of its outputs to trigger events.

What needs to be done next:

* Purchasing SPST-NO buttons that can be used for the mode, play, file/chapter select, and where am I buttons
* Purchasing a Micro USB - USB 2.0 cable adapter so that I can connect a USB flashdrive to the microcontroller to test the microcontroller's USB-interfacing functionality via its OTG\_FS peripheral.
* Writing code in c that uses the OTG\_FS peripheral to read and write files to a USB flashdrive
* Purchasing a Micro SD 32 GB Card and a Micro SD Storage Board with built-in Micro SD Memory Shield to test the microcontroller's SD card-interfacing functionality via its SDIO peripheral
* Writing code in c that uses the SDIO peripheral to read and write files to a SD card
* Writing code in c that uses the DAC peripheral to convert digital audio files into output analog sound signal