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**TO:** Dr. Winikus  
**FROM:** Anthony Robert Feliciano  
**Subject:** Progress Update on Project 2  
**Date:** 10/13/2021

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**PURPOSE:**

This memo is to update the faculty of the class CSE321 at the University at Buffalo with regards to my personal progress on Project 2.

**SUMMARY:**

The project's main purpose is to help students understand how to interact with off board peripherals and external modules. The background information needed for this project is knowledge regarded attaching external modules to a Nucleo L4R5ZI.

**UPDATE ON PROGRESS:**

The Progress I have made revolves around the Interrupt Sub routines and the inputs to the Project. I have allocated a couple of pins in order to light up an LED on pin PC\_8.

I have also planned out a prototype for the circuit building elements of this projects as well as downloaded all the necessary API for my LCD display.

I have also set up the ISR's for all of the inputs and tested the logic for the countdown timer using the mbed API.

**CONCERNS:**

A lot of times the LED doesn't light up very brightly and sometimes not at all. I am unable to discern whether this is a fault of my circuit set up or code. However I do suspect that my resistor may be the root of the problem

**RECOMMENDATION:**

The next steps for the project would be to:

- 1) Figure out dim LED problem
- 2)Set Up LED display
- 3)Set up remaining external Inputs(ie the rest of the keypad)