Alexandria University
Faculty of Engineering
Computer and Systems Engineering Department

CS331: Microprocessor Systems
Assigned: Monday 27th Nov, 2017
Due: Sunday 3rd Dec, 2017

Assignment 6

Remote Control Motor

- Use any Infrared remote control (Receiver or TV remote should work) as a controller for a sevo motor by directing the IR beam to the IR reciever (1838).
- You are required to make the motor rotate according to the number you send. For example: in order to make the motor rotate at 180 degrees, you send '1' then '8' then '0' then 'Menu' or any other function key and the motor should perfrom the correct rotation.
- The Volume up and down keys should make the motor angle increase or decrease by 10 degrees. Attach one of the gears to the motor to show its current position.

NOTE:

- In order to read the value of each remote control button you have to use an external library: https://github.com/z3t0/Arduino-IRremote
- Please read the library documentation and how to use it since there will be a collision with the RobotIRremote library that comes already with the arduino software. One approach is to delete the RobotIRremote , the other is to simply rename the dowloaded library files and includes to another name.
- The video should clearly show the pressing of the remote buttons and their effect on the serial monitor.

Delivery Policy

- Same groups as the spreadsheet.
- Represent the requirements using components (Servo, IR receiver, etc.…) and code.
- Send the video as attachment in piazza
- Inside the post body include your **full names** as well as any note you'd like to mention.
- **Due Date:** Sunday 3/12/2017
- **Late delivery** = -25% for each day of delay.

Good Luck