SANTA CLARA UNIVERSITY Electrical and Computer Engineering Department DYLAN THORNBURG

Real-Time Embedded Systems - ECEN 121 Assignment - Week 9 (20 points)

Andrew Wolfe

Answer the following questions.

1. Think of an interesting and useful device you could build with an STM32L476VGT6 Discovery board. Describe what the device is and generally how it works.

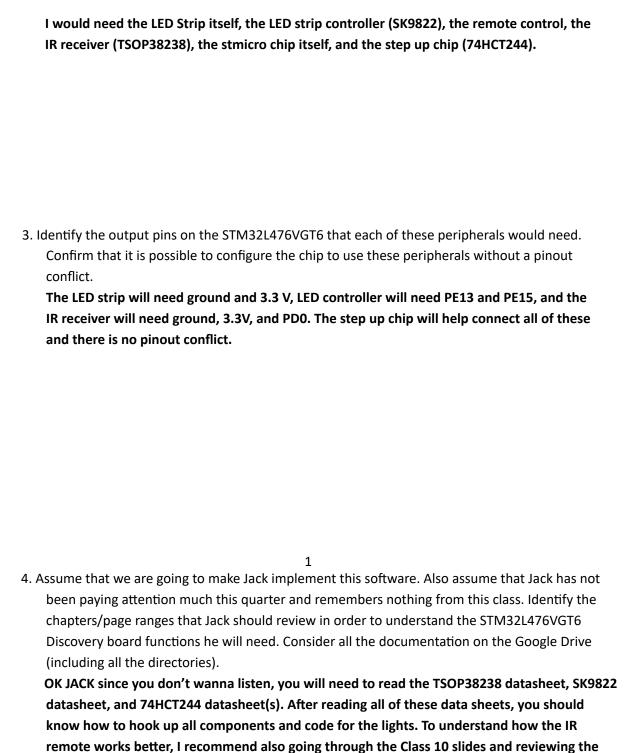
I could build a remote controlled LED strip similar to this:

https://www.amazon.com/Controller-Bedroom-Christmas-decration-Multi-Colored/dp/B0BQ LZ55R4/ref=asc_df_B0BQLZ55R4/?tag=hyprod-20&linkCode=df0&hvadid=693128046677&hvpos=&hvnetw=g&hvrand=17544627084535289378&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9032151&hvtargid=pla-1934551152899&mcid=08dfff0c88f936b88ef4f047bdbe272b&gad_source=1&th=1



The device would change LED colors and patterns based on remote control input.

2. Identify the peripherals, both on chip and off chip, that you would use in order to implement this device.



LED project Jack did for ELEN 120. I know Jack took ELEN 120 as he couldn't enroll in 121

unless he had passed 120 with a C- or better.