10/18 PTL

- DUPLICATE COMPONIENTS ON SCHEMATIC, OVERLADAMA WIGES

† . EST/MARK KNOWLEDGE DECENT, NEW GREAT

- DBG FORT NOW FUNCTION AL

+ t/- WORKS OWAY

- ? STILL PRINTS OUT FREE EXPENSIONS

- HE SEEMS TO WORK DOES NOT FREE EXPENSIONS

- NO HANDLE OVER LONG USER INPUT

- CRASH AFTER INVALID # BUFFER SIZE

10/26/20/8 Part 2

Comp in & correct

DWM WOKE, Chames with button.

(+) Temp in F correct

(+) PWM works, changes with sutton

(+) PWM value not correctly displayed in terminal.

-) No UI to change 8051 PWM, set different modes, need to flash the board again & again.

You will need to obtain the signature of your instructor or TA on the following items in order to receive credit for your lab assignment. This assignment is due by Friday, October 18, 2019 (Part 1 Required Elements) and Friday, October 25, 2019 (Part 2 Required and Supplemental Elements).

Print your name below, sign the honor code pledge, circle your course number, and then demonstrate your working hardware & firmware in order to obtain the necessary signatures.

HARSH RATHORE Student Name: Honor Code Pledge: "On my honor, as a University of Colorado student, I have neither given nor received unauthorized assistance on this work. I have clearly acknowledged work that is not my own." Student Signature: Signoff Checklist Part 1 Required Elements Schematic of acceptable quality (all components shown) Pins and signals labeled, decoupling capacitors, and two 28-pin wire wrap sockets present on board Very good knowledge of a terminal emulator Demonstrates all 32KB of XRAM in memory map are functional, including monitor block fill command Using PAULMON2, demonstrates highest baud rate as: 57 400 Knows how to use SDCC [IDE or make optional] Knows how to analyze output files (.RST, .MEM, .MAP) for correct addresses C serial program and virtual debug port functional and code commented NO DBG PORT Hex display of buffer contents Part-2 Required and Supplemental Elements ARM code integration and execution 8051 PWM control works correctly, X2 mode Correctly enters Idle mode and exits via external interrupt 1 Correctly enters Power Down mode All other PCA software menu items function correctly Good understanding of PCA modes Good user interface; program is easy to use

FOR INSTRUCTOR USE ONLY Part 1 Elements Schematics, SPLD code	Not Applicable	Below Expectation	Meets Requirements	Exceeds Requirements	Outstanding
Hardware physical implementation Part 1 Required Elements functionality				8	
Sign-off done without excessive retries Student understanding and skills					
Overall Demo Quality (Part 1 elements)			<u> </u>		

FOR INSTRUCTOR USE ONLY Part 2 Elements Part 2 Required Elements functionality Supplemental Elements functionality Student understanding and skills	Not Applicable	Below Expectation	Meets Requirements	Exceeds Requirements	Outstanding
Overall Demo Quality (Part 2 elements)	Ō				

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Optional Challenge: PAULMON2 RUN command

Optional Challenge: ISP API calls

Instructor/TA Comments:

Optional Challenge: C and Assembly interfacing

Optional Challenge: Serial ISR

Optional Challenge: SDCC heap memory management analysis

CRASH AFTER INVALID # BUFFER SIZE

10/26/2018 Part 2

(+) Temp in F correct

(+) PWM works, changes with sutton
(+) PWM value not correctly displayed in terminal.
(-) No UI to change 8051 PWM, set different modes, need to flash the board again 2 again.