ENCM 511 Assignment 2 Report

| On this 2 ^{cnd} day of December, 2018, I Alexa Astoring confirm that | |
|---|---------------------------------------|
| On this day of December, 2018, I Alexa Ash | confirm that |
| Assignment consists of only my own work and that | t Smith's 20 minute rule was followed |
| at all times. | |
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| May Adama | 1.45 |
| Name: Alexa Astorino Signa | :_ Dcc. 2/2018 |
| ID # 20007M- | Dec 2 12018 |
| ID #: | · M. 2/2010 |
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| T ' | |
| Terminal Printout of EUNIT Test Results | |
| • I am testing the SPI Interface used in Lab 4. The main | tests I have written check whether |
| writing worked when its supposed to and did not work | |
| whether some registers involved with initializing the SF | |
| shouldn't before and after calling initialize. I check if th | , |
| the REB GPIO input library and wiring the REB board a | |
| project are from Lab 4, allowing the SPI interface to rui | |
| | _ |
| Loading application: "H:\ENCM511_Fall2018\Lab4_Astorino | _Core0\Debug\Lab4_Astorino_Core0.dxe" |
| Load complete. | |
| Smith GPIO_REB_Input activated | |
| EUNIT version Sep 27 2018 | G. |
| Not using I/O stream UNITTEST_USE_CUSTOM_STREAM | S |
| Succesful link to test file TestDetails cpp. | |
| \src\Lab4 Astorino Tests.cpp(87): Expected Failure in Write | Something: 15 != 10 |
| Smith REB SPI activated | Something. 13. 10 |
| \src\Lab4 Astorino Tests.cpp(96): Success in WriteSomethin | 10 = 10 |
| \src\Lab4 Astorino Tests.cpp(107): Expected Failure in Som | |
| \src\Lab4_Astorino_Tests.cpp(108): Expected Failure in Som | eInitializeRegs: 0 != 80 |
| \src\Lab4_Astorino_Tests.cpp(109): Expected Failure in Som | eInitializeRegs: 0 != 65040 |
| \src\Lab4_Astorino_Tests.cpp(110): Expected Failure in Som | eInitializeRegs: 0 != 5 |
| Smith REB_SPI activated | |
| \src\Lab4_Astorino_Tests.cpp(115): Success in SomeInitializ | |
| \src\Lab4_Astorino_Tests.cpp(116): Success in SomeInitializ | |
| \src\Lab4_Astorino_Tests.cpp(117): Success in SomeInitializ | |
| \src\Lab4_Astorino_Tests.cpp(118): Success in SomeInitializa | ekegs: 3 == 5 |
| Successful link to test file Lab4_Astorino_Tests_cpp. Success: 8 blackbox tests passed. | |
| Blackbox Assert statistics: 0 Failures, 5 Expected Failures, 5 S | 11002222 |
| Whitebox Assert statistics: 0 Failures, 0 Expected Failures, 0 S | |
| Test time: 190.28747500 seconds. | decesses. (merades e rest statistics) |
| | |

Source Code for EUNIT Test Project

• Please refer to the Lab4_Astorino_EUNIT_src.zip in the D2L dropbox

Source Code for Coffee Pot Project

- Please refer to the CoffeePot_Astorino_Assign2_SRCCode.zip in the D2L dropbox
- My code only allows the Coffee pot to be controlled, using my own functions and Fast Forward, when a core timer interrupt occurs
- PLEASE NOTE: Assignment 1 reassessment I have now added the required assembly code to control water inflow for the coffee pot. Refer to My_WaterInFlow_ASM.asm inside CoffeePot_Astorino_Assign2_SRCCode.zip