

CPRE 491 -May20-04

CPRE 288 Embedded Systems Platform Movement and Code Optimization

Week 8 to 9 Report

November 3 November 17

Client: ISU 288 Dr. Jones and Rover. Matthew

#### Team Members:

Jacob Aspinall – Team communication leader

Geonhee Cho – Report manager

Issac Klein – Note taker

Jisoo Han – Team Git master

Sam Rai – Team web master

Nathan Nordling – Team data manager

#### Weekly Summary

We met advisors at week 9. Individual team members working with specific issues now. Somehow, we need to know specific purpose of the work that we are doing.

#### Past Week Accomplishments

Jacob Aspinall

- Helped Geonhee and Sam with DSS and IR sensor
- Wrote tutorial for writing assembly with keil uvision for Dr. Jones
- Started looking into QEMU

Geonhee Cho

DSS work

- To setup break point through the DSS API
- Make the code to get the DSS data to console. To use Rerouting printf() output
- Wrote the window bash script to build the ccs lab1 and connect to DSS
- Researched about CI/CD
- DSS work is done now.

Jisoo Han

- Review our design document (2hour)
- First, I found a way using Gitolite to give different permission, researched, but too complex to use.(2hours)
- Tried to divide the Gitlabby branches. (master, 288, 488). and give them different level of permission. it worked but there is no permission after merged. (3hours)
- Found a method called submodule to restrict people to access to repository. (2 hours)
- Review about the submodule and think how I put this in our repository. (3 hours)

Sam Rai

- I am working furthermore in IR sensor and Analog-to-Digital converter.

Issac Kleinsd

- Reviewed timer get micros and get Millis use
- As well as timer pause and timer resume
- Devised a plan to write unit tests to find the accuracy of pause and resume as wells as the get micros and millis based on real time

Nathan Nordling

- Been coughing up a storm again, sry couldnt be there
- began writing uart unit tests

### Individual contributions with 2 weeks

Team Member	Contribution	Weekly H	Total H
Jacob Aspinall	Helping teammates, Assembly, QEMU	17	66
Geonhee Cho	Finished DSS work. Now start to work on CI/CD at GitLab	14	58
Jisoo Han	Reviewed team documentation, Git repository work	14	57
Sam Rai	Went over the chapter 2 and 7 to understand more about the GPIO and ADC.	13	55
Issac Klein	Worked with timer and check the accuracy, also worked with tests.	12	54
Nathan Nordling	Worked with uart unit tests written.	12	54

### Plans for next 2 weeks:

Jacob Aspinall

- Write documentation for simulation
- Design document
- Final presentation slides

Geonhee Cho

- Arrange weekly lab report 6
- To set up continues integration work at GitLab repository

Jisoo Han

- Setup the repository with submodule and test if it is possible to access by Since we are pushing works to subfolders, we can't download single folder without accessing each subfolder

Sam Rai

- Testing and simulating IR sensor with ADC.

Issac Klein

- Continue to write tests in the following weeks and take screenshot of data of results.
- Plan to place results in a spreadsheet and create the graphs

Nathan Nordling

- spreadsheets for data, write more uart tests, pick up other issues as they come Time

### Summer of weekly adviser meeting

These weeks, we meet our advisor and discussed about our work and purpose to do. We need to prepare for senior design presentation at the end of this semester. Also, need to know what specific work that we are involved and purpose of that work. Make sure that we are working separate work, and plan to meet all members at the same time after thanksgiving break.