

Weekly Progress Report

Week 7

Date:02/18- 02/25

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Summary:

During week 7

Updates for the Capstone Proposal

Bliss Summary :

Doing:

Finishing up Min Port.

TODO:

Prep for the presentation Continue Minimum Port Look into Zephyr

Done:

Re-read GNU Make Manual Looked into CleanFlight Make files structure

Eric Summary :

Doing :

- Create EAGLE schematic and layout for custom HiFive hardware shield.

TODO :

- Prep for the presentation
- Create EAGLE schematic and layout for custom HiFive hardware shield.

Done :

- Completed Minimum Port (modified Cleanflight's Makefile to compile a demo program for the HiFive1 Rev. B, while maintaining its original - functionality). Created Minimum Port wiki document outlining steps on how to modify Cleanflight's Makefile.

Nikolay Summary :

Doing:

- Prep for the presentation
- Min port

TODO :

- Make a fresh Weekly Meetings template
- Continue communicating with Cleanflight maintainers

Done :

- Research freedom metal API
- Weekly Progress report
- Contacted a maintainer in Cleanflight repo
- Min port
- Build an example for the HiFive Board
- And traceback using the Freedom SDK
- Contact Cleanflight maintainers

Ruben Summary :

Doing:

- Prep for the presentation

Done :

- Sent the required emails
- Email Michal for the Friday meeting - he proposed new schedule 2/27 5PM. Need to confirm with Roy
- Continue with min port (goal with compiling sample program) - didn't finish since Eric did complete the minimum port
- Completed my presentation slides

TODO :

- Receipts and shopping with Michal - will ask Michal next week in person
- Comparing SiFive's Bare Metal API with the direct hardware approach in Cleanflights code.

Challenges:

- Makefile complexities
- Github branching/forking/merging complexities

Notes:**General Notes:**

- Giving Project Proposal presentation at Galois Inc. Friday, Feb. 27
- Update from Michal - amazon cart with drone kit and other items arrive 2/18. Also, the sifive boards should be available by 2/21
- Got Amazon parts but waiting to meetup with Roy to receive them.
- Discussed feedback from Cleanflight developers/maintainers who were suggesting Betaflight is what we should focus on and questions to ask Galois about it.

Questions for Galois:

- For the final deliverable “pull request” does Galois intend for us to merge with CleanFlight proper or Galois fork of Cleanflight and what are the constraints for a “accepted” pull request?
- Ask Michal about keeping receipts for purchased products to speed up item acquisition.
- Ask about meeting up with Galois more often.
- Bring up findings about Betaflight.
- When did Galois create their fork of Cleanflight.