

Meeting Minutes

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|-----------------------|--------------|-----------|---------------------|
| Meeting/Project Name: | HYPEIT | | |
| Date of Meeting: | 06-23-2020 | Time: | 12:00 pm -> 1:45 pm |
| Meeting Facilitator: | Hayden Hulse | Location: | Colin's House |

| Meeting Objective |
|--|
| <ul style="list-style-type: none"> • Talk to Beyerlein about turning in assignments by just adding them to our OneDrive • Get some definitive project tasks and due dates set • Finish the product requirements documentation |

| Attendees | | | |
|-----------|--------------|----------|---------------|
| Here | Name | E-mail | Phone |
| X | Zac Avelar | avel0059 | (208)749-1259 |
| X | Colin Parke | park7435 | (208)631-3460 |
| X | Alex Kiss | kiss8000 | (503)333-0918 |
| X | Hayden Hulse | huls0072 | (208)731-2496 |

| Action Items | | | | |
|--------------|------------------------------------|--------|-----------------------|----------------|
| No | Action/Discussion | Who | When | Status/Comment |
| 1. | Get computer lab access sorted out | Hayden | Today | |
| 2. | Wheel Pattern | Kiss | | |
| 3. | Look into JimStim Basics | Hayden | Within this next week | |
| 4. | | | | |

Additional Notes:

- Mostly worked on the Product Requirements documentation which is due 06-25-2020
- Tried to fill out some of the actual project due dates and tasks in the gantt chart
- Beyerlein and Durgesh both agreed that just adding them to the OneDrive would be an acceptable way to submit our assignments
- Colin is going to look through user guide to check what is needed to upload code to ECU

Meeting Minutes

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|-----------------------|------------|-----------|-------------|
| Meeting/Project Name: | HYPEIT | | |
| Date of Meeting: | 06-30-2020 | Time: | 12:00 pm -> |
| Meeting Facilitator: | Alex Kiss | Location: | Zoom |

| Meeting Objective |
|---|
| <ul style="list-style-type: none"> • Update Beyerlein and Durghesh on recent progress • |

| Attendees | | | |
|-----------|---------------|--|---------------|
| Here | Name | E-mail | Phone |
| X | Zac Avelar | avel0059 | (208)749-1259 |
| X | Colin Parke | park7435 | (208)631-3460 |
| X | Alex Kiss | kiss8000 | (503)333-0918 |
| X | Hayden Hulse | huls0072 | (208)731-2496 |
| X | Dr. Beyerlein | Sbeyer@uidaho.edu | |
| X | Dr. Durghesh | Vdurghesh@uidaho.edu | |

| Action Items | | | | |
|--------------|------------------------------------|--------------|-----------------|---------------------|
| No | Action/Discussion | Who | When | Status/Comment |
| 1. | Get the wires ordered | Colin | today | ordered |
| 2. | Get started on the wiki page | Hayden | today | Outline started |
| 3. | Team Photo | All | Early next week | done |
| 4. | Wheel Pattern | kiss | now | extended |
| 5. | Trace Signals/Literate Programming | Zac & Hayden | soon | |
| 6. | Look through all old wiki pages | Zac & Hayden | | done |
| 7. | Source Power Supply | Colin | soon | Waiting on durghesh |
| 8. | Simulink Research | All | | In person or zoom |

Additional Notes:

- We want to be able to test all sensors on the test bench by end
- Temporary crank wheel to show spin
- What do we want to show on our wiki page?
 - Connection to ECU
 - JimStim Working
 - Objective of project and what it is
- BOM for whole project?

Meeting Minutes

| | | | |
|-----------------------|--------------|-----------|--------------------|
| Meeting/Project Name: | HYPEIT | | |
| Date of Meeting: | 07-07-2020 | Time: | 1:00 pm -> 3:15 pm |
| Meeting Facilitator: | Hayden Hulse | Location: | Colin's House |

| Meeting Objective | |
|---|--|
| <ul style="list-style-type: none"> • Discuss updates for thursday meeting • Did we find power supply? • Discuss getting actual progress done... • Get team photo • Do Design Validation Plan • Update budget with actual amount spent | |

| Attendees | | | |
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| Action Items | | | | |
|--------------|---------------------------------------|--------------|-----------------|----------------|
| No | Action/Discussion | Who | When | Status/Comment |
| 1. | Talk to D&B about power supply | Colin | Thurs 7/9/20 | |
| 2. | Figure out how to make wiki page | Hayden | Today 7/7/20 | |
| 3. | Signal Tracing & Literate Programming | Zac & Hayden | Weds 7/8/20 | |
| 4. | DVPR | Colin | By Thurs 7/9/20 | |

Additional Notes:

- Took team and individual photos
- Durgesh said he might have a power supply
- Colin updated budget with actual wire costs
- Kiss did Value Proposition and the team read over and double checked it
- Name wiki "CSC Pi-Innovo OpenECU"

Meeting Minutes

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|-----------------------|------------------|-----------|-----------------|
| Meeting/Project Name: | HYPEIT | | |
| Date of Meeting: | Thur. 07-09-2020 | Time: | 1:00 -> 4:00 pm |
| Meeting Facilitator: | Hayden Hulse | Location: | Colin's House |

| Meeting Objective |
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| <ul style="list-style-type: none"> Finalize things for meeting with Beyerlein and Durgesh tomorrow Work on various things, including literate program, presentation, |

| Attendees | | | |
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| X | Hayden Hulse | huls0072 | (208)731-2496 |

| Action Items | | | | |
|--------------|--|-----|------------------|-----------------------------------|
| No | Action/Discussion | Who | When | Status/Comment |
| 1. | Email dan about coming to meeting tomorrow | Zac | Now | Done |
| 2. | Presentation put together | all | Tuesday 07-14-20 | |
| 3. | Set Design Review | all | | Talk about it tomorrow in meeting |
| 4. | | | | |

Additional Notes:

- Got extremely angry trying to find the best way to upload our gantt chart and didn't even figure it out

Meeting Minutes

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|-----------------------|-----------------|-----------|-------------------|
| Meeting/Project Name: | HYPEIT | | |
| Date of Meeting: | Fri. 07-10-2020 | Time: | 10:00 am -> 11:00 |
| Meeting Facilitator: | Colin | Location: | Zoom |

| Meeting Objective |
|---|
| <ul style="list-style-type: none"> • Go over wiki and update advisors and client • Get some new dates and action items for this next week |

| Attendees | | | |
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| X | Zac Avelar | avel0059 | (208)749-1259 |
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| X | Alex Kiss | kiss8000 | (503)333-0918 |
| X | Hayden Hulse | huls0072 | (208)731-2496 |
| X | Dr. Cordon | | |
| X | Dr. Beyerlein | | |

| Action Items | | | | |
|--------------|--|--------|-----------|----------------|
| No | Action/Discussion | Who | When | Status/Comment |
| 1. | Abbreviations List | Zac | By Sunday | |
| 2. | Email Durgesh and ankit about power supply and dyno desktop | Colin | By Sunday | |
| 3. | Update budget with power supply and dyno desktop | Colin | By Sunday | |
| 4. | Update wiki: Image information, rearrange some sections, new sections, add budget, | Hayden | By Sunday | |
| 5. | Send OneDrive Link to Advisors and Client | Hayden | By Sunday | Done |
| 6. | Create table of contents and explanation for one drive layout | Hayden | By Sunday | Done |

| | | | | |
|----|--|--|--|--|
| 7. | Gather serial #'s of sensors to make data sheets | | | |
| 8. | | | | |

Additional Notes:

- ~~Add list of definitions/abbreviations to wiki~~
- ~~More info on images to identify what they are~~
- Design development section? Outline some goals?
- ~~Add some sections maybe? About software/hardware etc.~~
- In future work section maybe talk about timeline/date or an overview of it.
 - Move future work to deliverables under a future heading.
- ~~Add budget under additional documentation~~
- Email durgesh and CC ankit about power supply for ECU
 - Add this to our budget
- Show space or setup diagram
- ~~Desktop in budget for future team work (talk to ankit about what our inventory machines are or about purchasing a machine and what specs we would need)~~
- Design review on the 21st of July at 12:00 pm (beyerlein is going to check with other teams and get back to us)
- Getting everything in place for dyno operation and how we set up and completed these tests for the design review. Also a plan for the rest of the tests.
 - What is the documentation package we will be handing off as a legacy piece (specs for this)
- ~~Possibly a lot more that could be stated in the validation section in order to allow external readers to understand the process and what is actually going on.~~
- Send onedrive link to all advisors
 - ~~Table of contents/explanation for onedrive~~

Meeting Minutes

| | | | |
|-----------------------|-----------------|-----------|--------------------|
| Meeting/Project Name: | HYPEIT | | |
| Date of Meeting: | Tue. 07-14-2020 | Time: | 1:15 pm -> 3:00 pm |
| Meeting Facilitator: | Hayden Hulse | Location: | Colin's |

Meeting Objective

- Go over Beyerlein's review and make changes where needed
- What is a design review and what do we need to do for ours?
 - Design Review set for Monday July 20th from 11-12
-

Attendees

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|------|--------------|----------|---------------|
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| X | Alex Kiss | kiss8000 | (503)333-0918 |
| X | Hayden Hulse | huls0072 | (208)731-2496 |

Action Items

| No | Action/Discussion | Who | When | Status/Comment |
|----|----------------------------------|--------------|--------------|----------------|
| 1. | Program JimStim Wheel Pattern | Kiss | 7/14/20 | |
| 2. | PowerPoint | Hayden & Zac | By 7/14/2020 | |
| 3. | Read Pi user guide Section 4 & 6 | Everyone | ASAP | |
| 4. | Connect signals due this week | Kiss & Colin | By 7/17/2020 | |
| 5. | Implement maps for signals | Colin | By 7/19/2020 | |
| 6. | | | | |

Additional Notes:

Below are some suggestions from Beyerlein

- Problem Definition
 - Refine Value Proposition

- Detail specs? In design validation matrix
- Stress knowledge management aspect of project
 - identify & orient an audience of current CSC members who can test drive your system this fall w/Colin
- Project Learning
 - Be more specific about where the project should be by august 7th
 - begin to develop your project documentation plan and advance this alongside programming/testing
- Wiki Site
 - a bit dense on narrative, strive to pare down and stress highlights for general audience
 - project learning section could probably be merged with earlier section on the page
 - final Pi Innovo graphic is confusing to general audience
- Design Solution
 - come up with plan for packaging your documentation and begin populating this
- Design Validation
 - strive to breakdown each test into component parts that can be traced in your design validation matrix
 - Jim Stim emulator is integral to this effort (clarify use/setting of knobs)
- References
 - continue to capture/interpret key sections in Pi Innovo manuals
 - include contact data with any Pi Innovo or industry personnel you are working with

What are we going to do to meet these above suggestions?

- H

Before the design review

- Read throttle and crank position
- Output and injection and spark signal
 - Communicating to each other through a map
 - A skeleton (because we have no data)

Section 4 and section 6 on Pi-User has some information on MAPS and blocks and how to use the signals

Meeting Minutes

| | | | |
|-----------------------|-------------------|-----------|-----------------------|
| Meeting/Project Name: | HYPEIT | | |
| Date of Meeting: | Thurs. 07-16-2020 | Time: | 11:30 am -> 12:00 pm, |
| Meeting Facilitator: | General | Location: | Zoom, |

| Meeting Objective |
|---|
| <ul style="list-style-type: none"> Discuss design review and documentation |

| Attendees | | | |
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| Here | Name | E-mail | Phone |
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| X | Alex Kiss | kiss8000 | (503)333-0918 |
| X | Hayden Hulse | huls0072 | (208)731-2496 |
| X | Beyerlein | | |
| X | Durghesh | | |

| Action Items | | | | |
|--------------|--|------|-----------|----------------|
| No | Action/Discussion | Who | When | Status/Comment |
| 1. | Do crank/injector tutorial | Kiss | 17 Jul 20 | |
| 2. | Email Continental about 850 sensor specs | Kiss | 17 Jul 20 | |
| 3. | | | | |
| 4. | | | | |

Additional Notes:

- Look through wiki pages to see if anyone has the design release slides to look over
- Slides
 - Have an overview slide like a summary

- Value proposition might serve as objective/first slide
 - Put it in bullet points
- Deliverables in bullet points as objective after value prop
- Put background first on team and project
- Visual stuff on background
 - Engine lab photos etc.
- Rename product requirements just product requirements
 - Address documentation and training issue
 - Type out things in presentation
- Validation is an important part of our work
- Graphic about engine control
 - Give a feel about how Pi-Innovo is organized
 - How is JimStim used?
- Add more detail and don't be afraid to add some beef. 15-18+ slides
- End on risk management?
- Highlight key design decisions already made
- Documentation plan could be a table of contents for a manual or identification of key graphics
 - File management system left as a legacy
- Talk about version control in risk management through matlab and simulink
 - Things not to mess with etc.
- Let people know some funds come from department and club funds etc.
 - Distinguish between summer purchases and future purchases
 - Ingredients of new workstation for engine lab
- Email new version of slides over weekend for slide revision
 - Maybe two or three rounds
 - Practice delivery!!!

Meeting Minutes

| | | | |
|-----------------------|------------|-----------|-------------|
| Meeting/Project Name: | HYPEIT | | |
| Date of Meeting: | 07-21-2020 | Time: | 12:00 pm -> |
| Meeting Facilitator: | Alex Kiss | Location: | Zoom |

| Meeting Objective |
|--|
| <ul style="list-style-type: none"> • Go over design review • Talk about version control in OneDrive • |

| Attendees | | | |
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| X | Alex Kiss | kiss8000 | (503)333-0918 |
| X | Hayden Hulse | huls0072 | (208)731-2496 |
| X | Dr. Durgesh | | |
| X | Dr. Beyerlein | | |
| X | Dr. Dan | | |

| Action Items | | | | |
|--------------|-------------------|-----|------|----------------|
| No | Action/Discussion | Who | When | Status/Comment |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |

Additional Notes:

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Meeting Minutes

| | | | |
|-----------------------|--------------|-----------|--------------------|
| Meeting/Project Name: | HYPEIT | | |
| Date of Meeting: | 07-23-2020 | Time: | 1:00 pm -> 3:00 pm |
| Meeting Facilitator: | Hayden Hulse | Location: | Colin's |

Meeting Objective

- Discuss progress done this week
- Talk about final documentation
- Talk about programming and testing

Attendees

| Here | Name | E-mail | Phone |
|------|--------------|----------|---------------|
| X | Zac Avelar | avel0059 | (208)749-1259 |
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| X | Alex Kiss | kiss8000 | (503)333-0918 |
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Action Items

| No | Action/Discussion | Who | When | Status/Comment |
|----|---------------------------------|----------|------|----------------|
| 1. | Start Moving Items into OneNote | Everyone | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |

Additional Notes:

- Colin has been working on input processing
 - Zac has been doing (didn't hear him)
 - Alex has been
 - Hayden is working on final documentation page and wiki updates
-
- Monday put all our logbook stuff into one group OneNote
 - Thursday start putting into big packet and send out

Meeting Minutes

| | | | |
|-----------------------|------------|-----------|---------|
| Meeting/Project Name: | HYPEIT | | |
| Date of Meeting: | 07/28/2020 | Time: | 9:00 -> |
| Meeting Facilitator: | Colin | Location: | Colin's |

| Meeting Objective |
|---|
| <ul style="list-style-type: none"> • Go over work we got done • Set action items for coming week • |

| Attendees | | | |
|-----------|--------------|----------|---------------|
| Here | Name | E-mail | Phone |
| X | Zac Avelar | avel0059 | (208)749-1259 |
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| X | Hayden Hulse | huls0072 | (208)731-2496 |

| Action Items | | | | |
|--------------|---|-----|------|---|
| No | Action/Discussion | Who | When | Status/Comment |
| 1. | Summary of MAPs | | | How do we organize compensation tables? |
| 2. | Finish Crank | | | |
| 3. | Setup other signals for simulation | | | |
| 4. | Finish simulation setup and run it (put together documentation) | | | |
| 5. | Simulation section in program | | | |
| 6. | Everyone should check out Borg Warner Model and feel dumb for a while | | | |

Additional Notes:

- Kiss has been working on a variable reluctance signal (VR_Signal)
 - Determines angular position
 - Makes rough VR Signal (+/-) voltage
 - Scales with voltage
- Hayden has been doing basic sections in OneNote for the final documentation packet
 - Electrical safety
 - Productivity & Cleanliness
 - Version Control
 - Final Management

Meeting Minutes

| | | | |
|-----------------------|------------|-----------|-------------------|
| Meeting/Project Name: | HYPEIT | | |
| Date of Meeting: | 08-03-2020 | Time: | 2:00 pm -> 2:30pm |
| Meeting Facilitator: | everyone | Location: | zoom |

| Meeting Objective |
|---|
| <ul style="list-style-type: none"> • Distribution of final work • Figuring out what all needs done • |

| Attendees | | | |
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| X | Zac Avelar | avel0059 | (208)749-1259 |
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| Action Items | | | | |
|--------------|--|-------------|---------|-----------------------------|
| No | Action/Discussion | Who | When | Status/Comment |
| 1. | Simulated model | Kiss | Tuesday | |
| 2. | Tech Presentation | Hayden, Zac | Tuesday | Piggyback off design review |
| 3. | Collate design documentation into portfolio | Kiss | Friday | |
| 4. | Design report | Zac | Tuesday | |
| 5. | Update wiki | Hayden | Tuesday | |
| 6. | Final Documentation Package completed (our user guide) | Colin | Friday | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |

Additional Notes: