
491 Weekly Status Report 3

2/15 - 2/22

Group 15

Project: Cryen

Client: Dr. Randall Geigar

Advisor: Dr. Chen Degang

Team:

- Justin Shaver - Meeting Facilitator
- Thomas Frye - Scribe
- Will Pigg - Lead Hardware
- Chandler Davis - Lead Software
- Daniel Bohlke - Test Engineer
- Caleb Hendrickson - Test Engineer

Weekly Summary

The week's priority was completing the project plan. The assignment was divided into sections so each team member had a hand in its completion. We also finalized the powerpoint on our design prototype that was presented to our client and advisor in the last faculty meeting. The team identified sections of the project that will need to be addressed before others. The appropriate research needs to be done before we can move forward.

Past Week Accomplishments

- **Justin Shaver**
 - Completed the project timeline in the project plan along with the itemized goals and deliverables.

- Divided project into main sections that will allow team members to stay focused on specific component of the design.
- Researched waveform manipulation software that may aid in our design.
- **Thomas Frye**
 - Completed introductory materials in project plan and finalized formatting and organization.
 - Prepared powerpoint for faculty meeting which included identifying software considerations, a diagram of the design prototype, and future planning.
- **Will Pigg**
 - Completed the estimated resources section in the project plan.
 - Finalized block diagram for project plan.
 - Continued research in electronic components that may serve in our design.
 - Worked on hardware section of powerpoint for faculty meeting.
- **Chandler Davis**
 - Completed the risks and challenges section of the project plan.
 - Incorporated the IEEE code of ethics into the project plan.
 - Practiced use case of existing hardware to identify strengths and weaknesses of existing solutions.
- **Daniel Bohlke**
 - Completed the assessment of proposed solutions section of the project plan.
 - Completed the conclusion section of the project plan.
 - Began research in controllers that could be used in our design.
- **Caleb Hendrickson**
 - Completed the use case diagram for the project plan.
 - Finalized the previous work and literature review section of the project plan.

Individual Contributions

Name	Individual Contributions	Hours	Total
Justin Shaver	<ul style="list-style-type: none"> ● Project timeline ● Itemized goals and deliverables 	4	9
Thomas Frye	<ul style="list-style-type: none"> ● Introductory materials ● Project plan formatting and organization 	4	9

	<ul style="list-style-type: none"> ● Powerpoint for faculty meeting 		
Will Pigg	<ul style="list-style-type: none"> ● Estimated resources ● Block diagram ● Hardware research ● Powerpoint for faculty meeting 	3	9
Chandler Davis	<ul style="list-style-type: none"> ● Risks and Challenges ● Standards 	2	6
Daniel Bohlke	<ul style="list-style-type: none"> ● Assessment of proposed solutions ● Conclusion 	2	7
Caleb Hendrickson	<ul style="list-style-type: none"> ● Use case diagram ● Literature review 	5	11

Comments Extended for Discussion

During our weekly meeting we came to the conclusion that onboard controller that will be used in our design much be decided on first before appropriately pursuing the other parts of the project. Each team member is tasked to do research on a few controllers that should be worth considering in our design. A list of pros and cons along with key features is expected.

Plans for Upcoming Week

- **Justin Shaver**
 - Break down the sections of the project into more parts so team members may be delegated to complete specific tasks.
 - Add tasks to the team's Trello board.
- **Thomas Frye**
 - Focus efforts on researching potential controllers and software/hardware requirements that must be addressed in our design.
- **Will Pigg**
 - Begin purchasing hardware components that may be used in our design. The idea to become familiar with the specific components.
- **Chandler Davis**
 - Focus attention on researching controllers to be used in our design.
 - Bring music equipment to the next meeting for a demonstration.
- **Daniel Bohlke**

- Research controller boards that will be suitable for our design.
- **Caleb Hendrickson**
 - Identify potential controllers that will satisfy the software/hardware needs of our design.

Summary of Weekly Advisor Meeting

The main goal of the faculty meeting was to present our design prototype to our client and adviser. We addressed the major components of the project along with software/hardware concerns that will require further research. We received constructive feedback on our design that will require our attention.