

Weekly ReportEE491

Date: 2/01/2014

Group Number and Name	Dec 14-3
Client/Advisor	Des Moines Public School/Dr. Tyagi
Attendees/Role	Nathaniel Young, Ziji Guo, Sam Kelly, Latif Masud

Past week accomplishments

What was done, who did it, and when it was done

- ❖ Everyone had meeting with mechanical engineering design team and found out more information about the project.
- ❖ For the week, we found out that our platform choice may be independent, instead of simply iOS. This changes the parameters and specifications of our project quite a bit.
- ❖ Each of us looked into a different approach for solving the problem presented in the project. Contributions are highlighted in the Individual Contributions section.

Plan for coming week

What to do, who, and when should it be done

- ❖ Visit client in Des Moines on Thursday for initial meeting. Goal for the meeting is to get proper project description.
- ❖ Look further into micro controller route for device control.
- ❖ Look further into the brainwaves route for device control.
- ❖ Sync with mechanical team and coordinate with them to assign tasks.

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Pending Issues

- ❖ Platform choice (iOS/Android/Windows): finding out from client which platform the project needs to be implemented for.
- ❖ Webpage bring up. Waiting for server space to be assigned.
- ❖ Hardware Capabilities: Finding out capabilities of the previously designed headset and motor control from client. Should be addressed next Thursday via the client visit.

Individual Contributions

- ❖ Ziji: proposed idea for using eye tracking software and hardware from third party medical company.
- ❖ Sam: proposed swtiches idea for iOS platform that allows users to control iPad via head motions.
- ❖ Nathaniel: proposed idea for using brainwaves in combination with an Arduino controller to control tablet.
- ❖ Latif: proposed micro controller route to control the tablet via an Arduino or Raspberry Pi interface. Also looked into accessibility options on the Surface

Individual hourly Contributions

<u>NAME</u>	<u>Hours this week</u>	<u>HOURS Cumulative</u>
Latif	3	4
Nathaniel	3	4
Sam	3	4
Ziji	3	4

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Comments and extended discussions:

This week, we had our first meeting with the Mechanical Engineering design team that will work in parallel with our client. We found out a lot more about the project and the client. We setup weekly meetings with the team for every Wednesday, and plan on visiting the client next Thursday. In our adviser's meeting, we came up with some overall goals for the visit that will allow us to clearly define the goals of the project, which in turn help us choose a design route and set a project schedule.