***EE 492 WEEKLY REPORT 2 Date: 1/23/17-1/29/17***

***Group number: 24***

***Project title: Ultrasound Water Purification***

***Client &/Advisor: Prof Bigelow***

***Team Members/Role:***

***Jacob Bernhard/Team leader***

***Yuhao Fu/Team Communication Leader***

***Parker Oltrogge/Team Webmaster***

***Subin Mao/Team Key Concept Holder***

***Xiyuan Wang/Team member***

***Tao Wu/ Team member***

* **Weekly Summary**

Followed by last week, we kept the plan tight. in order to build the real purification model, our team went to the chemistry shop and talked to the mechanical there about our project. we were told that they are able to build this but price is depends on the material and size, especially some of the small part are really hard to attached. we are still thinking if there are any other ways to build it.

* **Past week accomplishments (please describe as what was done, by whom, when)**
* Jacob Bernhard: doing research about the standing wave filtration.
* Yuhao Fu: e are still thinking if there are any other ways to build it.
* Parker Oltrogge: wrote some code to make use of arduino and PH sensor.
* Subin Mao: Build the PH sensor in breadboard and calibrated it.
* Xiyuan Wang: Built the circuit of PH sensor and calibrated it.
* Tao Wu: went to chemistry store, but find it’s take too much time to build our device
* **Individual contributions**

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| --- | --- | --- | --- |
| **NAME** | **Individual Contributions** | **Hours this week** | **HOURS**  **cumulative** |
| **Jacob Bernhard** | standing wave | 2 | 4 |
| **Yuhao**  **Fu** | building model | 2 | 4.5 |
| **Parker Oltrogge** | wrote arduino code for PH sensor | 1.5 | 3.5 |
| **Subin Mao** | Built the PH sensor in breadboard and calibrated it. | 2 | 4 |
| **Xiyuan Wang** | Built the circuit of PH sensor and calibrated it. | 2 | 4 |
| **Tao**  **Wu** | talked with staffs who could help us to build our device | 2 | 5 |

* **Plan for coming week**
* Jacob Bernhard: find out the way to test the standing wave test
* Yuhao Fu: we plan to contact Lee to see if there is any chance to build our device by him.
* Parker Oltrogge: Code basically for testing right now need to make it/work on it for final product.
* Subin Mao: Keep working on testing PH sensor and begin to create our temperature sensor.
* Xiyuan Wang: Continue to work on PH sensor and begin to build thermometer on our breadboard.
* Tao Wu: we plan to contact Lee to see if there is any chance to build our device by him.
* **Summary of weekly advisor meeting**

we didn't have meeting this week.