***EE 492 WEEKLY REPORT 5 Date: 2/13/17-2/19/17***

***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. we were told there are lots of small problems to consider if we need to build the model without PVC tubes. and testing part, they built the turbidity testing circuit and got the relation between light and photoresistance.

* **Past week accomplishments (please describe as what was done, by whom, when)**
* Jacob Bernhard: received all the parts
* Yuhao Fu: need to change our device
* Parker Oltrogge: Did not fix arduino code, but effort was made.Built and tested the initial circuit design for turbidity, super simple and simplistic design. the code was the easiest to write.
* Subin Mao: Built the turbidity testing circuit and got the relation between light and photoresistance.
* Xiyuan Wang: Created the circuit for testing turbidity and analyzed the relation between the light and photoresistance.
* Tao Wu: PVC cannot create our device directly, we need to change our device, so we go to hoover lab to try to use 3-D printer to build our device
* **Individual contributions**

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| --- | --- | --- | --- |
| **NAME** | **Individual Contributions** | **Hours this week** | **HOURS**  **cumulative** |
| **Jacob Bernhard** | standing wave | 3 | 12 |
| **Yuhao**  **Fu** | 3d print | 3 | 12.5 |
| **Parker Oltrogge** | Did not fix arduino code, but effort was made.Built and tested the initial circuit design for turbidity, super simple and simplistic design. the code was the easiest to write. | 3.5 | 12 |
| **Subin Mao** | Built the turbidity testing circuit and test the photoresist and photodiode. | 4 | 13.5 |
| **Xiyuan Wang** | Created the circuit for testing turbidity and analyzed the relation between the light and photoresistance. | 3 | 12 |
| **Tao**  **Wu** | let hoover lab to build our device. and will take whole weekends to do it | 8 | 15 |

* **Plan for coming week**
* Jacob Bernhard: go through the test.
* Yuhao Fu: plan to have our device done
* Parker Oltrogge: might need to look at the Temperature sensor design and alter it, because after much work, no success.
* Subin Mao:make turbidity testing block for turbidity testing.
* Xiyuan Wang: Make a dark box for turbidity testing.
* Tao Wu: plan to have our device done, and try to connect them together.
* **Summary of weekly advisor meeting**

Professor was off campus this week.