***EE 492 WEEKLY REPORT 6 Date: 2/27/17-3/5/17***

***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**

We went to the hive mechanical shop which has a 3D printer. we decided to print out the model.testing group used test from previous week to test multiple turbid waters, using least squares method we created a close fitting line.

* **Past week accomplishments (please describe as what was done, by whom, when)**
* Jacob Bernhard: drilled some whole and bought more materail
* Yuhao Fu: we get out model done
* Parker Oltrogge: Using Turbidity box built by Subin we finished turbidity sensor prototype.
* Subin Mao: Built the dark box for testing turbidity.
* Xiyuan Wang: Made a dark box for turbidity testing.
* Tao Wu: we get our device. and try to buy hose online
* **Individual contributions**

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME** | **Individual Contributions** | **Hours this week** | **HOURS**  **cumulative** |
| **Jacob Bernhard** | standing wave | 2 | 14 |
| **Yuhao**  **Fu** | model building | 2 | 14.5 |
| **Parker Oltrogge** | used test from previous week to test multiple turbid waters, using least squares method we created a close fitting line. | 1 | 13 |
| **Subin Mao** | make the second dark box for testing turbidity. | 2 | 15.5 |
| **Xiyuan Wang** | Made a dark box for turbidity testing. | 1 | 13 |
| **Tao**  **Wu** | find the hose which is fix our tube perfectly | 1 | 16 |

* **Plan for coming week**
* Jacob Bernhard: run the test.
* Yuhao Fu: buy more equipment like metal clamp and hose.
* Parker Oltrogge: do a full prototype test. After prototype test works we need to do a varying temperature test of all prototype parts at different temperatures ranging from very hot to very cold.
* Subin Mao: test the turbidity testing block with the led and photoresistor
* Xiyuan Wang:
* Tao Wu: connect hose to our device to see if it works.
* **Summary of weekly advisor meeting**

we received the model and discussed how to assemble the whole system