***EE 492 WEEKLY REPORT 8 Date: 3/27/17-4/2/17***

***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 decide to place only one uv light on our device. and the testing group borrowed LED screen, attempted to program so that device functions computerless, issues with powering both arduino and circuits. combined all code into a single Arduino code file setup for mix computer display values and powerbox power sensors.

* **Past week accomplishments (please describe as what was done, by whom, when)**
* Jacob Bernhard: testing the standing wave again
* Yuhao Fu: we decided to assemble the uv llight
* Parker Oltrogge: borrowed LED screen, attempted to program so that device functions computerless, issues with powering both arduino and circuits. combined all code into a single Arduino code file setup for mix computer display values and powerbox power sensors.
* Subin Mao: test the turbidity of sample and got some results
* Xiyuan Wang: Combine all the code into Arduino to display the result for PH sensor and turbidity sensor.
* Tao Wu: since the limitation of our device, we decide to place only one uv light on our device
* **Individual contributions**

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME** | **Individual Contributions** | **Hours this week** | **HOURS**  **cumulative** |
| **Jacob Bernhard** | test | 5 | 21 |
| **Yuhao**  **Fu** | uv light | 5 | 21.5 |
| **Parker Oltrogge** | Coding week | 5.5 | 24.5 |
| **Subin Mao** | set up the pcb layer in software | 5 | 24.5 |
| **Xiyuan Wang** | Combine all the code into Arduino to display the result for PH sensor and turbidity sensor. | 4 | 20 |
| **Tao**  **Wu** | drill one hole on the top of the device, and try to connect bulb and device | 2 | 18 |

* **Plan for coming week**
* Jacob Bernhard: help with assembly model
* Yuhao Fu: seal the model
* Parker Oltrogge: need to create PCB board so that we have before demo is due. Ph still requires work to fix our huge variance issues and no suitable design for positive PH values <5 to arduino input pin have been designed. Need to finish work for LED screen to eliminate computer from design.
* Subin Mao:
* Xiyuan Wang: Begin to create PCB board.
* Tao Wu: our sealment is arrived. we will try to seal any probably gap to make sure water will not leak out.
* **Summary of weekly advisor meeting**

professor was with with his research project.