***EE 492 WEEKLY REPORT 12 Date: for example 04***[***/09/17 to 04/16/17***](https://bb.its.iastate.edu/webapps/assignment/uploadAssignment?content_id=_2843610_1&course_id=_53546_1&assign_group_id=&mode=view)

***Group number: 26***

***Project title: Breast Feeding Flow Meter***

***Client &/Advisor: David Whitaker/ Santosh Pandey***

***Team Members/Role:*** Chukwudike C-Madu- Team Leader, Michael Brumfield- Team Webmaster Richard Milan- Team Communication Leader, Daryck Brown- Team Key Concept Leader Boris Ndoutoume- Team Key Concept Leader

* **Weekly Summary (Short summary about what you did this week)**

This week, the hardware team tried to keep in contact with the design files for the flexible PCB however the engineer we were in contact with went on vacation.

**Past week accomplishments (please describe as what was done, by whom, when)**

* Chukwudike C-Madu: Helped with Arduino bluetooth code to convert bit via bluetooth.
* Michael Brumfield: Worked on software gui interface changes
* Richard Milan: Helped Daryck with I2C communication code.
* Daryck Brown: Evaluated logarithmic functions for I2C communication
* Boris Ndoutoume: Worked on mobile app flow-meter specs

**Pending issues (if applicable)**

**Individual contributions**

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME** | **Individual Contributions** | **Hours this week** | **HOURS**  **cumulative** |
| Chuck | Modified Arduino code to test parameters for accuracy measurements in milk flow. | 20 | **98** |
| Micheal | Worked on bluetooth bit conversion code and testing. | 25 | **109** |
| Richard | Worked on Arduino sensor calibration and soldering parts for proof of concept | 30 | **111** |
| Daryck | Wrote Arduino code for I2C bus communication. | 23 | **104** |
| Boris | Worked on app volume conversion and testing. | **33** | 107 |

* **Comments and extended discussion**

**Plan for coming week (please describe as what, who, when)**

* Chuck: will finalize Arduino code with Daryck and proof of concept.
* Michael: will finalize bit to volume conversion formula on app side
* Richard: will make any adjustments to I2C communications that will aide collection process
* Daryck: Will finalize Arduino code to send more accurate data to app and go through several test with measuring milk.
* Boris: will finalize bit to volume conversion formula on app side and make sure GUI matches it.
* **Summary of weekly advisor meeting (if applicable/optional)**

**Advisor advised us to really grasp the proof of concept since flexible PCB did want to reply. It is important to show during the demo.**