***EE 492 WEEKLY REPORT 5 Date: for example 02***[***/12/17 to 02/19/17***](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 created a rough draft of first PCB layout. There also was research done on flexible PCB vendors.

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

* Chukwudike C-Madu: Worked on footprint for VEML6030 sensor to Arduino communication and helped create custom digital parts for PCB scheme.
* Michael Brumfield: Researched Google firebase for the mobile application
* Richard Milan: Continued working on custom footprint/packaging for VEML6030
* Daryck Brown: Continued updating I2C communication b/w the arduino micro-controller and the light sensor.
* Boris Ndoutoume: Research some feature software implementations

**Pending issues (if applicable)**

Flexible PCB companies are not so common and it seems like the vendors are slightly expensive and only take orders from big companies.

**Individual contributions**

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| --- | --- | --- | --- |
| **NAME** | **Individual Contributions** | **Hours this week** | **HOURS**  **cumulative** |
| Chuck | Worked on sensor to Arduino communication. | 6 | **26** |
| Micheal | Researched google firebase | 8 | **20** |
| Richard | Began working on custom footprint for VEML6030 | 6 | **27** |
| Daryck | Successfully achieved I2C bus communication b/w the light sensor and the arduino. | 7 | **29** |
| Boris | Worked on analysing documentation for supplementary features | **9** | 22 |

* **Comments and extended discussion**

PCB Vendor selection will be time consuming.

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

* Chuck: will contact more flexible PCB vendors
* Michael: will continue to research google firebase
* Richard: will finish up circuit schematic and pcb design in multisim/ultiboard.
* Daryck: will assist in designing/drawing the PCB board and begin testing the light sensor using the arduino as the host micro-controller.
* Boris: will continue to work on researching android features for app.
* **Summary of weekly advisor meeting (if applicable/optional)**

This week has been rough due to the confusion of flexible PCB vendors.