Submission Date	
Project Name	
Student Names	
Project repository	
SensorsEffectors choices	
The database will store	
The mobile device functionality will include	
I will be collaborating with the following company/department	
My group in the winter semester will include	
50 word problem statement	
100 words of background	
Current product APA citation	
Existing research IEEE paper APA citation	
Brief description of planned purchases	
Solution description	

2019-09-10
Lumi Monitor
Kyle Voduris, Harsimran Saini, and Gino Seridon
https://github.com/kylev1999/LumiMonitor
Light Sensor, Sound Sensor, Motion Sensor, Temperature Sensor?
Login Information, Time that child has cried,Amount of sleep, Time child has been fed, Sound recordings
Listen to sound coming from the Lumi, Change the colour of the LED/cycle through colours. Play songs, Turn on/off Lumi. View data on amount of sleep, feeding, etc. and adjust sensors.
Humber College School Of Media Studies and Information Technology
Harsimran Saini and Gino Seridon
The Lumi Monitor will allow parents to monitor their baby with one device though the convenience of their smartphone. The app will allow parents to see if their baby is awake with the use of motion sensors, adjust the light of the Lumi depending on if the baby is awake or not and can listen if their child is making any noise or crying.
A light sensor will detect the light level of a room and dim or increase the brightness of the LED. The LED will be a multicolour or RGB LED, the colour of the LED can be chosen through the app, as well as if the LED should cycle through different colours. The LED brightness can also be changed through the app. The parent can listen to the child though the app using a microphone. The parent can play songs though the app using speakers on the Lumi monitor. The volume can be adjusted on the app. Various data will be stored in the app such as the amount of time that the child has cried, amount of sleep, times that the child has been fed, etc.
Ehara, R. (2015, January 6). Listnr: Your Listening Assistant. Retrieved from https://www.kickstarter.com/projects/797220287/listnr-your-listening-assistant
M. P. Joshi and D. C. Mehetre, "IoT Based Smart Cradle System with an Android App for Baby Monitoring," 2017 International Conference on Computing, Communication, Control and Automation (ICCUBEA), Pune, 2017, pp. 1-4. doi: 10.1109/ICCUBEA.2017.8463676 URL: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8463676&isnumber=8463637
RGB LED(s), microphone, speaker, motion sensor, light sensor, raspberry pi, arduino
Allow parents to monitor their baby's well being with one device through an app. The app will allow various adjustments the Lumi monitor, they can listen and see if the child is awake, and play music to relax the baby.