TO: Kristian Medri

From: Abdirashid Yusuf

**Subject: Progress report for Lumi Monitor project**

Summary

# The project is to system that monitors the baby while it is sleeping and also senses the condition of the room. We began the project on Sept 5 2019.

# Work completed

# week sept 26 2019

# Submitted the project proposal and budget by week 2

# October 03 2019

# bought parts including a raspberry pi, BME280 sensor for temperature and humidity, and a Adafruit I2S MEMS Microphone Breakout - SPH0645LM4H for voice.

### October 17 2019

this week I worked on the PCB designed milestone this is [link](https://github.com/Abdirashid-Yusuf/Lumi-monitor/tree/master/Electronics) to my fritzing file.

https://github.com/Abdirashid-Yusuf/Lumi-monitor/tree/master/Electronics

### October 31 2019

I have created worked on the bread board milestone milestone. I have managed to succesfuly complete it.This is the link : <https://github.com/Abdirashid-Yusuf/Lumi-monitor/blob/master/index.md>

### November 7 2019

I have collected the PCB from the prototype lab, soldered the sensor to the PCB board.

Work to be completed

PCB power up

The PCB will be put to test and make sure is working as intended

Enclosure

A case that encloses the development platform and the designed PCB will be made. It will secure all the parts and make sure the are accessible as well. A file will be designed in repository and I will post a photo of everything in my blog

Presentation

I will present my project to the class and the professor by week 12 I.e. Nov 26 2019

Prototype

I will submit my project prototype by Dec 3 2019

Build instructions

Step by step manual for the project will be submitted by Dec 12 2019