

PROJECT DETAILS

"Calorie and Step Tracking System"

This project aims to create a system which is capable of tracking steps while walking, taking HR measurements and using the data gathered to calculate an estimate of burned calories.

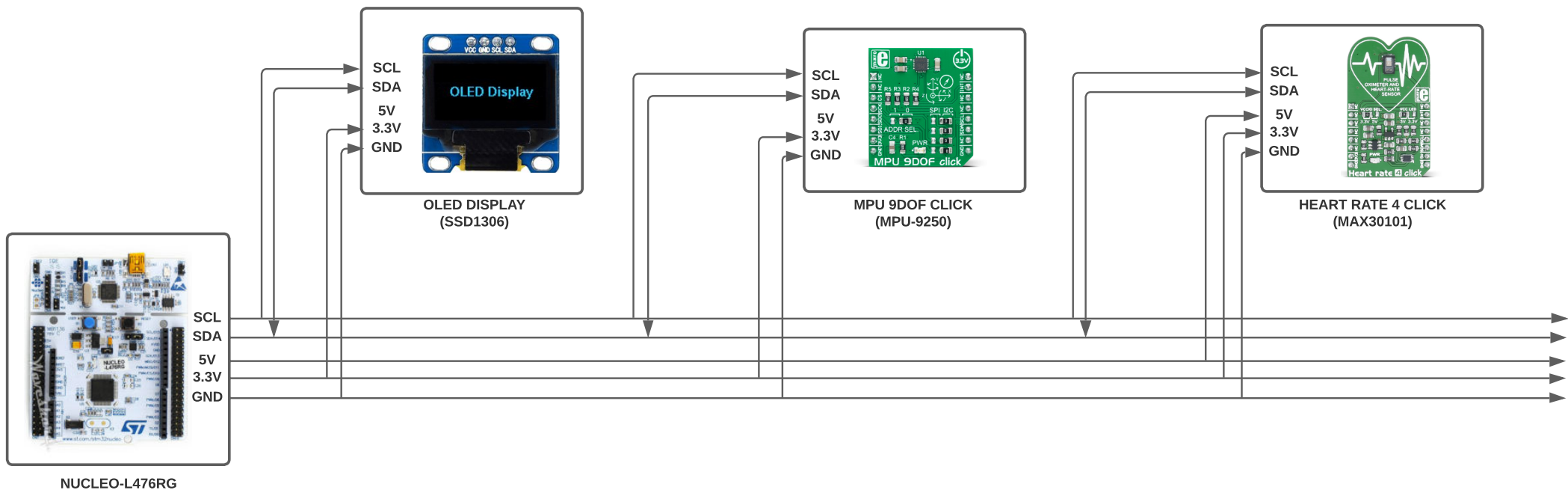
To achieve this, the system is comprised of the following components:

- **STM32L476RG** Microcontroller
- **MPU 9DOF Click** carrying a *MPU-9250* System in Package
- **Heart Rate 4 Click** carrying the *MAX30101* high-sensitivity pulse oximeter and heart-rate sensor
- **OLED Display** (*SSD1306*)

The information displayed on the OLED Display during operation include:

- *Elapsed Time*
- *Steps*
- *Average Heart Rate*
- *Calories Burned*

SYSTEM BLOCK DIAGRAM



SYSTEM FLOW DIAGRAM

