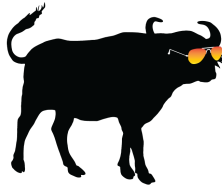


# Hydrated Buffs

#Aquana\_Matata



*Stay Hydrated, Continue Working*

## **Engineers:**

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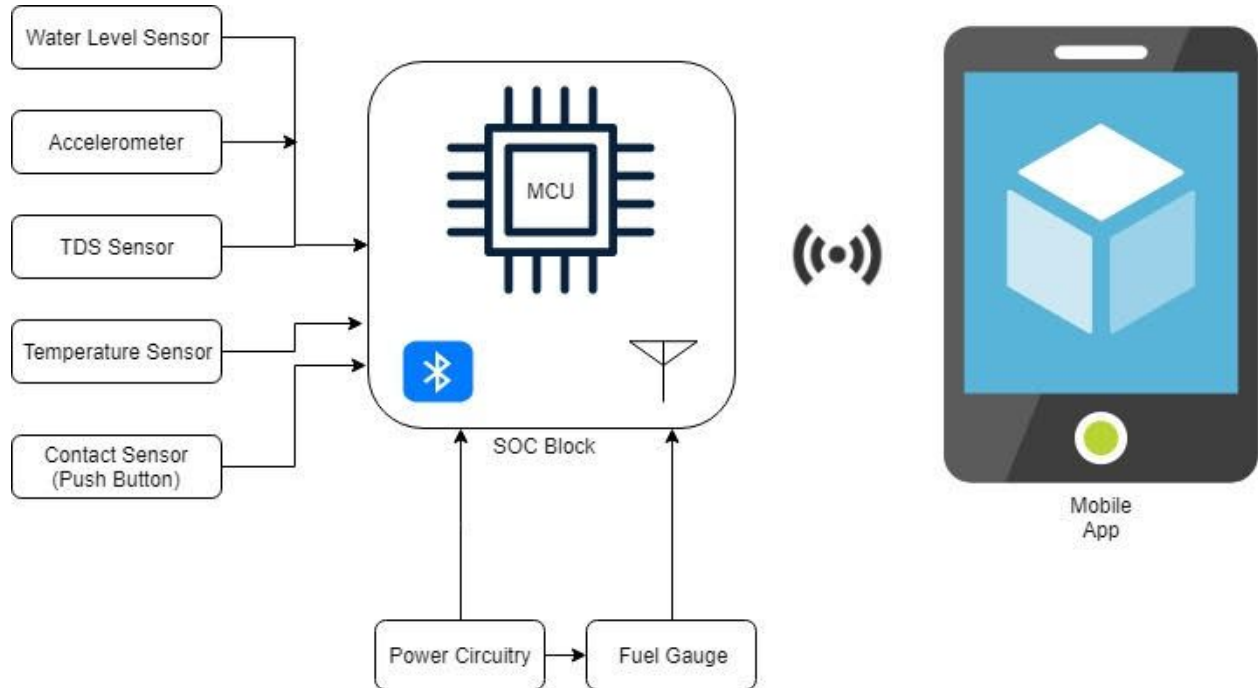
Timothy Scherr, Randall Spalding

## **Introduction:**

Hydrated Buffs is an innovative Smart bottle developed by Embedded Buff engineers which helps you to track your water intake via an application using BLE. It also has an interactive application to notify the user about prolonged periods without water consumption, low battery status updates, temperature and purity of water.

## **Problem Addressed:**

Amount of recommended water consumed per person per day is 2 liters. Consuming less water could affect energy levels and brain function. Existing applications require the user to manually input water intake as and when the user consumes a glass of water. This can be inaccurate as the size of the glass/bottle that the user consumed water from could be different from the one that the application measures or the user could enter incorrect amounts of water consumed. Our solution provides a way for the user to seamlessly track and be on top of their daily water intake without any of these inaccuracies. Our solution also provides a user friendly application that helps the user keep track of water intake, temperature of the water in the bottle and the purity of water.

**Block diagram:****Features:**

- Sensor technology tracks water intake and synchronizes progress to a free hydration tracker app via Bluetooth Low Energy
- Keep track of battery health status
- Long-lasting replaceable battery provides extended operating cycle
- Monitors temperature of water in the bottle
- Smart water bottle with bluetooth tracking
- Water level sensing activated only when water is filled or consumed, saving power
- Perfect as a gift for co-Buffs, friends and family—track each other's progress and make staying hydrated a fun activity!

**Optional Features:**

- Tracks water intake and offers you analytics and insight into your hydration habits
- Connects with water fountain near you so that the duration to turn on the compressor pump can be decided based on the data from the bottles

**Specification:**

- Bottle measures 22cm in length, 6cm in diameter
- Bottle weighs less than 300gms
- Powered by Li coin cell battery CR2477 - 3V, 1000mAh
- 2 PCB boards fixed one over the other below the bottle
- Warranty - 1 year