## General Intern Duties and Responsibilities

As a member of a small team of engineers and researchers, you will be working on core technology in an exciting and fast-paced environment. You will bring your expertise to the table to help build and launch the startup's first commercial product. You will be involved in the day-to-day decision making and you can expect to gain valuable insight into building a new, innovative product. On the hardware side, you will work with the latest telecom technologies such as 4G Cat-M1, BLE, embedded AI algorithms in C++ on the edge and low power electronics. On the software side you will be using cloud computing to manage data broadcasted in real time, apply various types of advanced mathematical algorithms (both traditional and ML based) and display that data to the user. As part of your job, you will have the option to travel across the country to participate in the field testing phases of the project as well. You can expect to learn the ins-and-outs of a funded startup and will gain valuable insight in a highly entrepreneurial environment.

We are seeking motivated, energetic and self-driven interns to help us design and build IoT devices from scratch and to test them both in the lab and in the field. The offer is ideally for a full-time paid internship with a 6 month duration. The start date is flexible but is expected to be around **February/Spring 2021**.

# Electromechanical Engineer

## Job Summary

As an engineering intern, you will help design and develop devices to calibrate industrial sensors and to automatically test circuit boards on a manufacturing line. Several sensors that we use, such as pressure sensors, level sensors and load cells, need to be characterized and calibrated to understand their behaviour under any stress and temperature condition. In addition, sensors from various manufacturers need to be compared in order to select the best options. There are high demands for data accuracy as this data is what feeds into our AI system. The product that we manufacture has to be tested as it is built and a custom setup and jig will be designed to do that quickly and efficiently. A specialized firmware will have to be developed in collaboration with the rest of the team for quick testing.

## Requirements and Qualifications

- Experience with CAD, 3D printers, machining simple parts
- Programming experience in C/C++
- Familiarity with development on microcontrollers
- Self-directed and able to work with minimal supervision

## Bonus Qualifications

- Experience with design for manufacturing
- Familiarity with Python
- Familiarity with circuit design & EDA software