

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**.

Industrial Embedded Systems Engineer

Job Summary

You will help develop a device that collects, process and transmits various sensor data on oil/gas wells and tanks. The product has to be installed in hazardous locations and as such has to be certified Class 1, Division 1 or Zone 1. Various communication protocols such as Cat-M1, GPS and BLE are used, as well as implementation of processing on-the-edge. The system is powered by disposable lithium batteries and needs to operate at very low power levels in order to last 3+ years between battery changes.

Requirements and Qualifications

- Previous experience bringing a product through C1, D1/2 or other hazardous location certification
- Familiarity with electronics, analog and/or digital

Bonus Qualifications

- Familiarity with cellular modems or BLE
- Familiarity with lithium batteries and low power devices
- Familiarity with Eagle software
- Familiarity with development on microcontrollers in C++