

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**.

Simulation Engineer

Job Summary

As a data simulation engineering intern, you will develop new simulation models for mechanical and acoustic systems to bolster the company's inverse problem platform. Strong numerical simulation and Python programming experience is expected. The goal is to implement, on a commercial software package like COMSOL, a model of the system and compare it to experimental results.

Job Responsibilities and Duties

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- Developing simulation models for mechanical/acoustic systems
- Filtering and processing high frequency time series data
- Playing a part in planning releases with minimum-to-zero user impact
- Commitment to working as a team to solve problems

Requirements and Qualifications

- Experience in Python
- Strong physics background
- Experience in simulation packages like COMSOL, Ansys, etc.

Bonus Qualifications

- Experience in numerical simulation (especially partial differential equations)
- Familiarity with Amazon Web Services or Cython