

**CLIENT**

www.rachio.com, 2040 Larimer St, Denver, CO 80205 (3 blocks from Coors Field)

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ABOUT US:

Rachio is building whole-home water management products for the modern world. Our first product, Iro, is a WiFi based smart irrigation controller. Our smart controller knows about weather and seasonality, and adjusts accordingly. It also learns as you teach it about unique characteristics in your yard and continues to modify your schedule as it gets smarter. An emerging market is growing called 'The Internet of Things' (IoT) which is predicted to include over 9 billion connected devices by the year 2018. We plan on being an integral part of the IoT ecosystem.

SUMMARY:

After a successful launch of our first product, [Iro](#), we are next building a smart home solution for measuring water flow through the house as well as detecting leaks. We are currently in the prototyping stage and this project will consist of creating an integrated ecosystem to measure water flow and detect leaks using moisture sensors and other proprietary methods. The project will have students integrating multiple pieces of hardware including a WiFi base station along with ZigBee based moisture sensors, shutoff valves, and flow meter. There will also be opportunities to develop a simple Android or iOS app to display data as well as creating internal software infrastructure to support sensor data.

REQUIRED SKILLS:

- Interest in Arduino and interfacing with hardware
- Basic knowledge of programming (Java, Objective-C/Swift, JavaScript)
- Desire to learn about other IoT programmatic APIs

TEAM SIZE:

2 students

STUDENT BENEFITS:

- Real-world project working on a team with over 60 years of professional development experience
- Be part of a revolutionary new hardware product
- Experience in one of the fastest growing markets