

## About Arch Systems

Back in 2011, Arch's CTO and Cofounder, Tim Burke, was in Tanzania trying to help rural village dwellers have access to clean drinking water. Previously, the focus had been on drilling new wells, but now they were aware of an alarming fact: 40% of the already-built wells would be broken at any given time! In fact, all across Sub-Saharan Africa, over 80% of such wells were broken, helping no one.

To solve this, he and his team endeavored to build an ultra-low-cost cellular monitoring system that could leapfrog traditional utilities the way cellular phones had leapfrogged landlines.

But the technology just wasn't there.

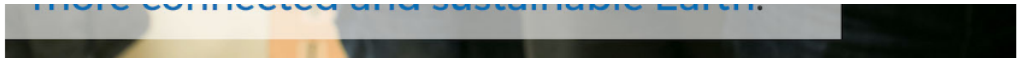
In 2015, Andrew Scheuermann and Tim Burke, who did their PhDs together at Stanford, founded Arch to provide that technology, and in 2016 wells serving up to 10,000 people were equipped in Tanzania.



The problem in Africa is not unique. Rather, people all over the world recognize such opportunities and are trying to build smart, connected infrastructure but lack the tools and resources necessary to do the job.



Our mission is to empower the innovative to design and deploy Industrial IoT for a [more connected and sustainable Earth](#)



Arch provides a device-to-cloud platform and partners with industrial thought leaders to define and implement cutting-edge IoT systems. With a novel IOTile™ framework, custom-configured wireless devices are produced 5x faster and 10x cheaper than ever before. Arch's modular technology overcomes the challenge of the diverse physical world to provide simple and secure access for the industrial internet.



The Arch team is defining the next wave of connected computing technology with four key principles in mind:

- 1. Empowerment - We empower our partners to design their own IoT applications
- 2. Execution - We build hardware like software, lean and fast from prototype to production
- 3. Evolution - We make industrial-grade products that are upgradeable
- 4. Everywhere - We are open API and open source



**We hope you'll consider joining us in this great effort to make a more connected and sustainable Earth.**

**INTERESTED IN JOINING THE TEAM?**














We are always looking for talented people. [Click here](#) to see our current openings!

**Our Address**

201 San Antonio Cir #135. Mountain View CA 94040. USA

## IOTile®

IOTile is the first **completely-modular industrial framework** that makes any machine or sensor talk the same language. Plug-and-play sensors and protocols, edge processing, communications, the cloud, and a menu of IoT apps to form a complete solution. Build remote visibility, predictive analytics, and powerful intelligence into your operation today.

SENSORS & PROTOCOLS	IO TILE DEVICES	COMMUNICATION TOOLS	CLOUD	APPLICATIONS AND ANALYTICS
 <p>Machine Integration</p>	 <p>Wireless PODs</p>	 <p>Cross Platform Gateway Utility (Linux, Mac, Windows)</p>	 <p>IOTile® Cloud</p>	 <p>IOTile Apps</p>
 <p>External Sensors &amp; Actuators</p>	 <p>Wireless and Wired NODEs</p>	 <p>Cellular Plans Gateway plans, Embedded plans</p>	 <p>Partner Clouds</p>	 <p>Partner Apps</p>
 <p>Embedded Sensors &amp; Actuators</p>		 <p>IOTile Companion App "Screen" of each device</p> <p>Download on the App Store   GET IT ON Google Play</p>		 <p>API</p>

## Core Features of the IOTile Framework



SensorGraph



Multi-Communication Networks



Edge-First Security



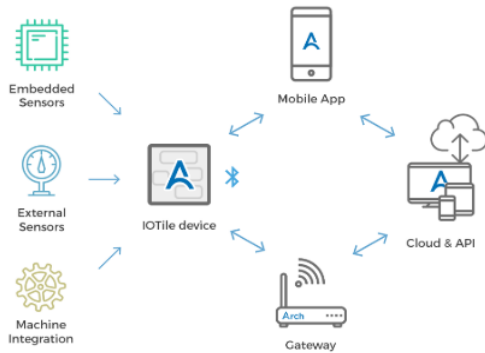
Robust Reports



Evolution and OTA



## INDUSTRIAL IOT BLUETOOTH® WIRELESS SOLUTION



Arch Systems provides a secure, robust solution for your remote monitoring and control needs. Our complete device-to-cloud platform is based on a modular architecture that allows us to move from lean, cost-effective prototypes to production solutions literally within weeks. Data can be stored and visualized through our cloud or passed robustly via our API for your own storage and custom application. The existing system connects via Bluetooth Low Energy to your mobile phone or tablet or to our Bluetooth Gateway. Other communication options will be available soon.

[LEARN MORE](#)



### DEVICE



#### POD-1: IOTILE™ DEVICE

POD-1 is a 2-Tile IoT device for industrial-grade Bluetooth sensing and control. It comes with a Bluetooth Low Energy controller that manages secure and robust data transmission, and contains one of a number of peripheral Tiles:

- GPIO Tile for pulse counting, digital, and analog
- Modbus and USB Tile for industrial equipment
- Accelerometer Tile for vibration monitoring
- Your Tile, ask about your need!

POD-1 comes with a NEMA 4, weather-proof, corrosion-resistant enclosure and provides multiple mounting options that make it viable for a wide array of indoor and outdoor environments.

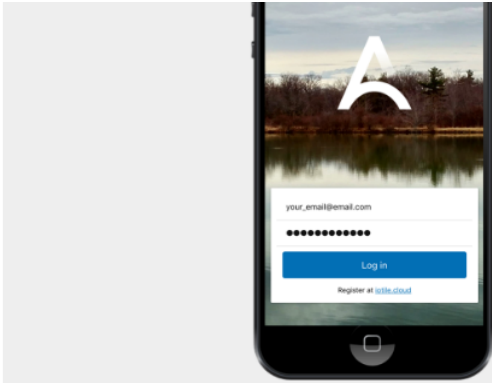


### TO



#### MOBILE APP AND GATEWAY

The IOTile Companion Mobile App and Gateway are purpose-built to relay robust and secure data between



the device and cloud. The mobile app is used to setup new devices, configure settings, and interact with devices in realtime. The app is designed to function in areas with or without connectivity, which makes it a robust solution for remote locations. Data logged by the mobile app or gateway is not deleted from Arch hardware until a secure communication confirms that the data has been successfully uploaded and stored in the cloud.

The IOTile Companion App is available on both the iOS and Google Play App Stores.



[LEARN MORE](#)