**SwigSmart**

A smart water bottle sleeve that passively tracks hydration throughout your day.

**Problem**

26 million Americans suffer from chronic kidney disease, costing Medicare over $50 billion annually. Proper hydration is key to alleviating symptoms, less dialysis, and longer life.

**Target User**

Our device targets both dialysis patients and their physicians, empowering patients with the data they need to proactively overcome their disease. Additionally, we will explore use by health enthusiasts, pro athletes, and nursing moms.

**Solution**

Our solution is a smart, wireless water bottle sleeve that has a weight sensor and an accelerometer, coupled with cloud-based machine learning algorithms to infer water consumption from the changing weight of the water bottle.

**Design Evolution**

Our first goal was to achieve long battery life—with just over 150 microamperes of current draw, our first iteration has over one month of battery life with wireless on. Next, we wanted a robust mechanical design that could withstand everyday life while passively recording every drink from the bottle. Each iteration was informed by direct physician feedback.

**Final Prototype**

Our final SwigSmart prototype, at just over ½" tall, is integrated into a standard CamelBak sleeve which accepts many standard bottles. Using Bluetooth 4.0 Low Energy Technology, it communicates to our web gateway via an iPhone. It can measure down to a sip accuracy. We will soon conduct a clinical pilot study at UCSF.