**Harris Water Bottle**

**Overview**
The project’s goal was to measure the amount of water exiting a water bottle and send this information to a cellular device that visually represents this information. The team consisted of: Zach Lucas, Carl Dell, Cory Wyke, and Greg Proulx.

**Objectives**
- Find flow sensor and wireless communication device
- Develop working model
- Develop Android application

**Approach**
- Hardware development steps:
  - Found microcontroller (Arduino Uno R3)
  - Found Bluetooth shield for Arduino Uno R3
  - Found flow sensor
  - Developed water bottle
  - Developed way to connect the flow sensor to the Uno R3 board using a 10kOhm resister
  - Created working water bottle prototypes
- Software development steps:
  - Received data from Bluetooth shield
  - Created database
  - Put data into database
  - Displayed data on graphs

**Outcomes**
- We successfully created a working water bottle
- We used ~$620 during the project
- We learned a lot about Android application development, hardware development, and teamwork
- All members of the team improved verbal communication skills, including presentation skills