

Team 11

Project Title: Smart Water Shutoff

Date: 10/31/21

Members:

- Alex Murray– Embedded programming
- Tyler Denning - Motors and Valves
- Natalia Almeida - System Sensors
- John King - Mobile application development
- Augusto Savaris - Machine learning
- Andrew Fehr - Electronic devices and circuits
- Kangcheng Xu - Motors and Valves

What we've accomplished in the past week/what we've been researching

- Alex Murray– Helped get the Raspberry Pi set up in order to use the ADC
- Tyler Denning - Helped get the Raspberry Pi talking to the ADC
- Natalia Almeida - Order new adc and helped get the Raspberry Pi talking to the ADC
- John King - Demonstrated that arbitrary data works with the graphing application
- Augusto Savaris - Tried helping with setting up the raspberry pi since the current data we have is seemingly random and there isn't much to learn before getting more data
- Andrew Fehr - Idle (Studying for other classes)
- Kangcheng Xu - helped get the Raspberry Pi communication with the ADC

What we're planning to do in the coming week

- Alex Murray– Work on setup of the server for data storage, and connecting the app to the Raspberry Pi
- Tyler Denning - Test replacement ADC or design posable amplifiers for sensor
- Natalia Almeida - Test new ADC to get data on the raspberry pi
- John King - Refactor application design and allow for better practical data interface.
- Augusto Savaris - Keep helping as I can to set up the raspberry pi data collection
- Andrew Fehr - Help with ADC testing and amplifier design

- Kangcheng Xu - try an new ADC on Raspberry Pi

Issues we had in the previous week

-Alex Murray– The Raspberry Pi took a lot of time to get working with the ADC

-Tyler Denning - ADC was not acting as expected.

-Natalia Almeida - raspberry pi seeing ADC device but to the sensor data

-John King - Nothing particularly of note.

-Augusto Savaris - nothing too important

-Andrew Fehr - NA

- Kangcheng Xu - the ADC component looks like it has broken.