

Team 11

Project Title: Smart Water Shutoff

Date: 11/5/2021

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– Created scripts to pull data from the vibration sensor and save it on the Raspberry Pi for analysis by Augusto as well as send data to port 1024 to be used for real time visualization of the data.
- Tyler Denning - Got the new ADC working and started programming a live graph to troubleshoot sensor issues
- Natalia Almeida - Got the ADC working, installed pi and sensor to pipe and extracted the data to be processed
- John King -
- Augusto Savaris -
- Andrew Fehr -
- Kangcheng Xu -

What we're planning to do in the coming week

- Alex Murray– Continue work on setting up the server components of the project (database, communication scripts)
- Tyler Denning - Finish the live graph
- Natalia Almeida - analyse the data from the sensor, decide which is useful and loop in the professor on the progress.

- John King -
- Augusto Savaris -
- Andrew Fehr -
- Kangcheng Xu -

Issues we had in the previous week

- Alex Murray– The Raspberry Pi continued to take time away from the server in order to help with the sensor testing, not a bad thing just a change of priorities again.
- Tyler Denning - Python/Pip installed matplotlib to the wrong directory on my PC
- Natalia Almeida - Unsure if the data being collected from the sensor is good.
- John King -
- Augusto Savaris -
- Andrew Fehr -
- Kangcheng Xu -