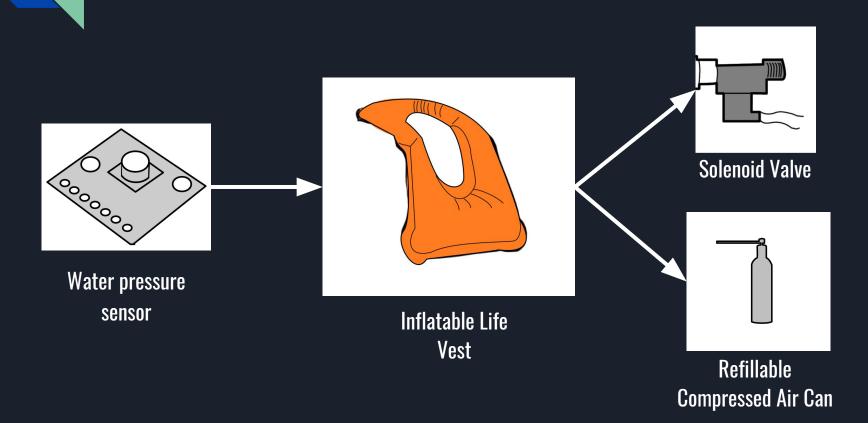
Team 01

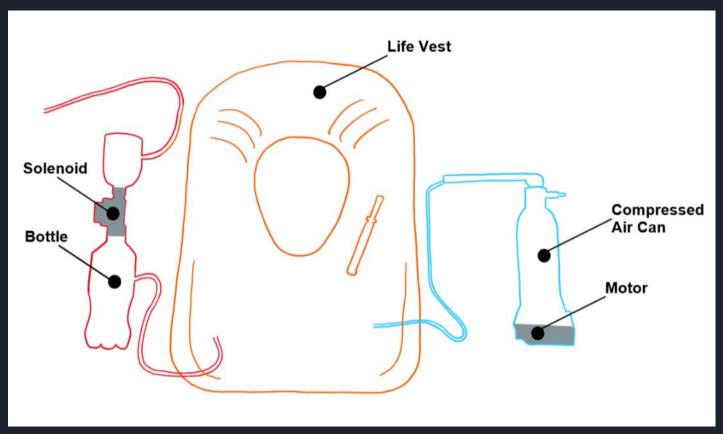
Leon Cheng & Daniel Hong

Final Presentation

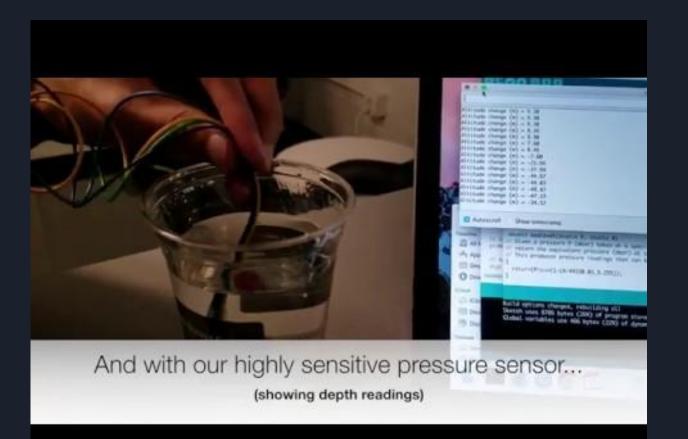
Adapty Floaty



Full Rotoscope



Video

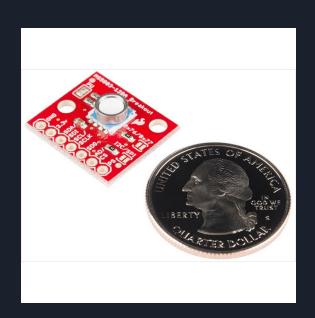


Sensors

Water Pressure Sensor

Detects changes in depth

Very tiny



Actuators





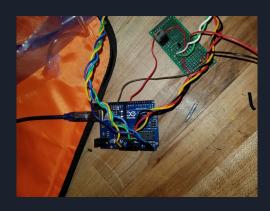


- Solenoid (for deflating) - Motor (for inflating) - Compressed Air Can -

3d viz video

Implementation challenges

- Connecting all wires and centralizing controls
- Securely soldering wires together
- Waterproofing ziploc bag with hot glue





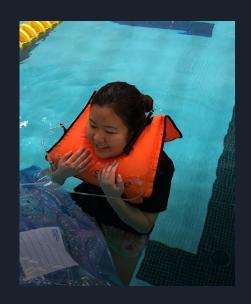
User Study

Was it useful: 3.0/5

• Was it fun: 4.7/5

Would you do it again: 3.0/5

- Comment: "Didn't expect it to make treading water that much easier."
- Comment: "Strap could be more comfortable."
- Quote: "Parents will love it!"



Learnings

- Do Differently
 - Use stronger material that does not melt or leak
- Future Work
 - Waterproof fully
 - More comfortable for humans to wear



