Mid Tern Proposal
Auto Fish Tank

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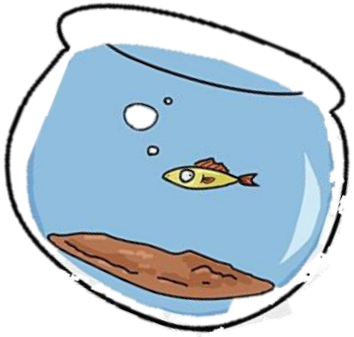
WHY?

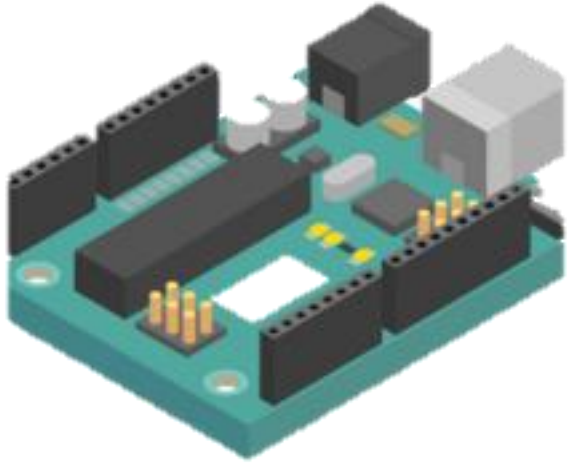


Because keeping fish is my personal interest and temperature regulation equipment is a crucial tool for aquaculture, it represents a significant expense for a college student. Therefore, I want to apply the Arduino knowledge I gained in class to create a fish tank that can be used for daily monitoring and regulation.

WHAT?

Use Arduino's existing modules to create automated effects with the breadboard version.

HOW?



Available Resources

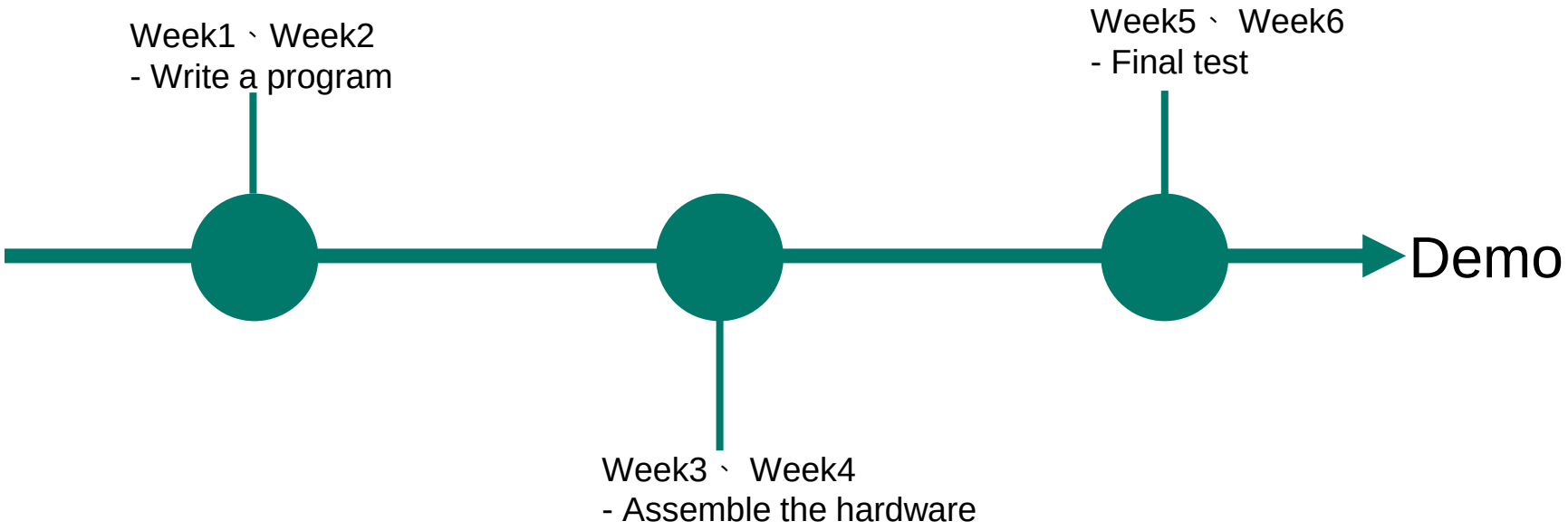
Fish Tank

Arduino

Coding Skill

There are many resources available: an empty fish tank, the Arduino programming skills acquired in class, and the Arduino modules supplied by the school.

SCHEDULE


Week1、Week2
- Write a program
Week3、 Week4
- Assemble the hardware
Week5、 Week6
- Final test
Demo

Projected Cost

-Arduino UNO -US$ 6.25

-Arduino DS18B20 Fully waterproof temperature sensor -US$2.2

-Arduino fan -US$1.9

-Arduino heating lamp -US$1.7

-LED Red/Blue/Green -US$4.7

- Dupont Line -US$2

-Breadboard -US$2

Total:
US$20.95