Interesting sensors:

Moisture sensor https://www.adafruit.com/product/4026

High accuracy temperature sensor: https://www.adafruit.com/product/4089

Absolute orientation imu fusion breakout https://www.adafruit.com/product/2472

Midterm project:

Smart Flowerpot. It is used to measure soil moisture and air temperature. LCD display shows temperature and humidity in real time. Under normal data, the LED light is green. When the environment is abnormal (humidity is lower than 17% or higher than 44%, temperature is higher than 35 degrees or lower than 10 degrees), the LED light will turn red.

Input sensors: Moisture sensor https://www.adafruit.com/product/4026 High accuracy temperature sensor https://www.adafruit.com/product/4089 Output: LCD display, LED lights

- 1) Make two sensors work with Arduino separately. Detect their output value
- 2) Make LCD display work and display any random value
- 3) Display temperature and moisture value in LCD display.
- 4) Compute the threshold based on temperature and moisture value to light LED

Nice to have: Make LCD display all info, and display health condition of plant periodically



