

Microcontroller Choice

- Options you considered as microcontrollers
 - ESP32: It offers Wi-Fi and Bluetooth, low power consumption, and multiple analog/digital sensor pins.
 - Raspberry Pi: Dual-core microcontroller with sensor readings and display control performance.
 - Arduino Uno: Simple, reliable, and widely used in DIY electronics, and supports Wi-Fi/Bluetooth.
- Which one you chose
 - Arduino Uno
- Why
 - We chose the Arduino Uno because it supports all the required sensors and functions for the Smart Plant Care project. We have the most experience with its hardware and software.
- Items you need to start working with it, like IDE, compiler, toolchain, hardware/software debugging tools
 - Arduino IDE
 - Arduino Uno Board
 - Breadboard and Wires
 - Sensors
 - Resistors
 - Capacitors
 - Other components