

IPD Phase 3:

Bloom Buddy

INTERACTIVE PRODUCT DESIGN



A smart houseplant companion for future housing environments

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Product Idea and Background Research

Theme

- Future housing: work-from-home and single-person household trends

Purpose and Goals

- A smart plant pot that playfully encourages human-plant interactions while simultaneously facilitating care
- Experience the benefits of houseplants without the stress of taking care of it

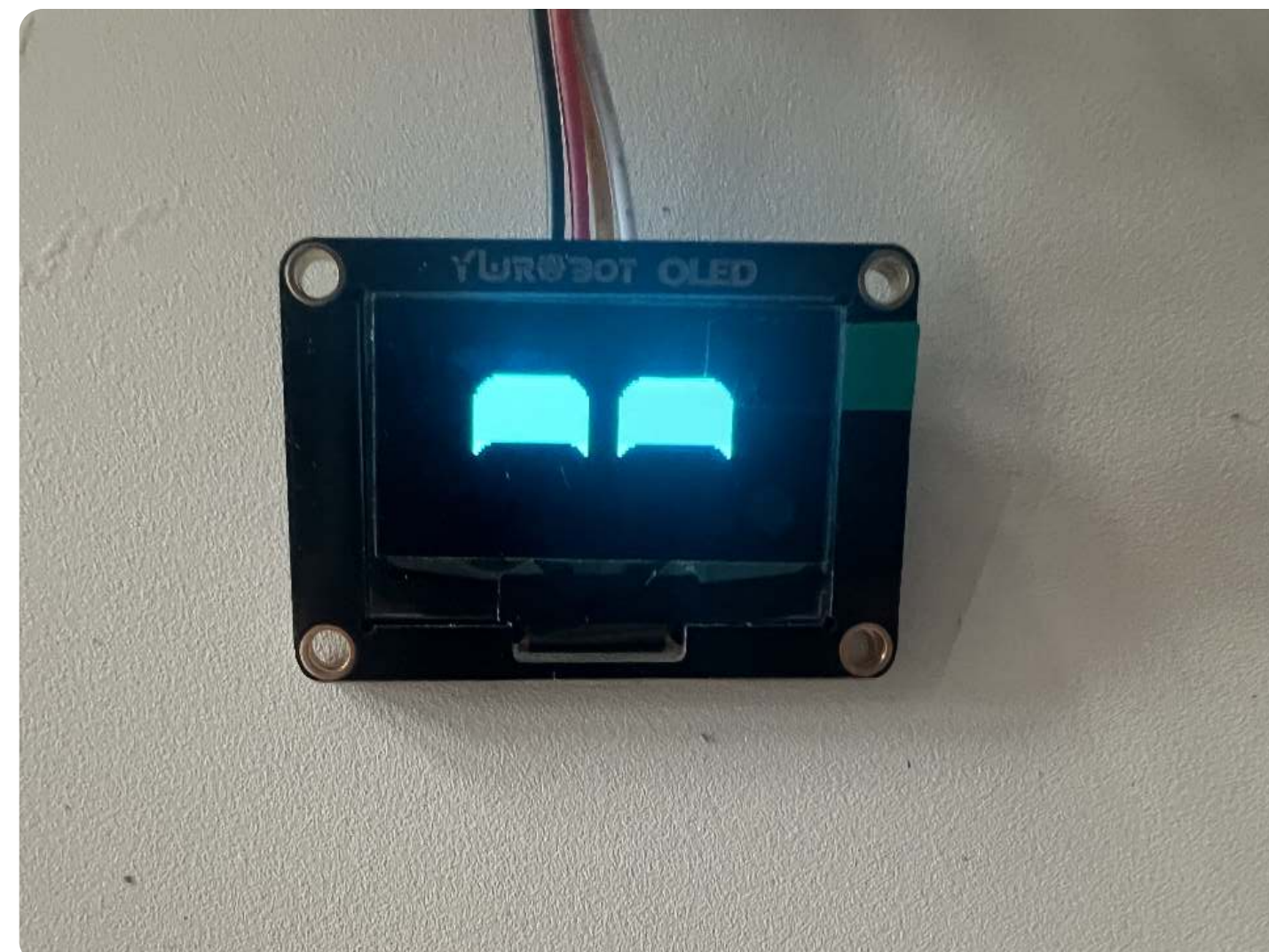
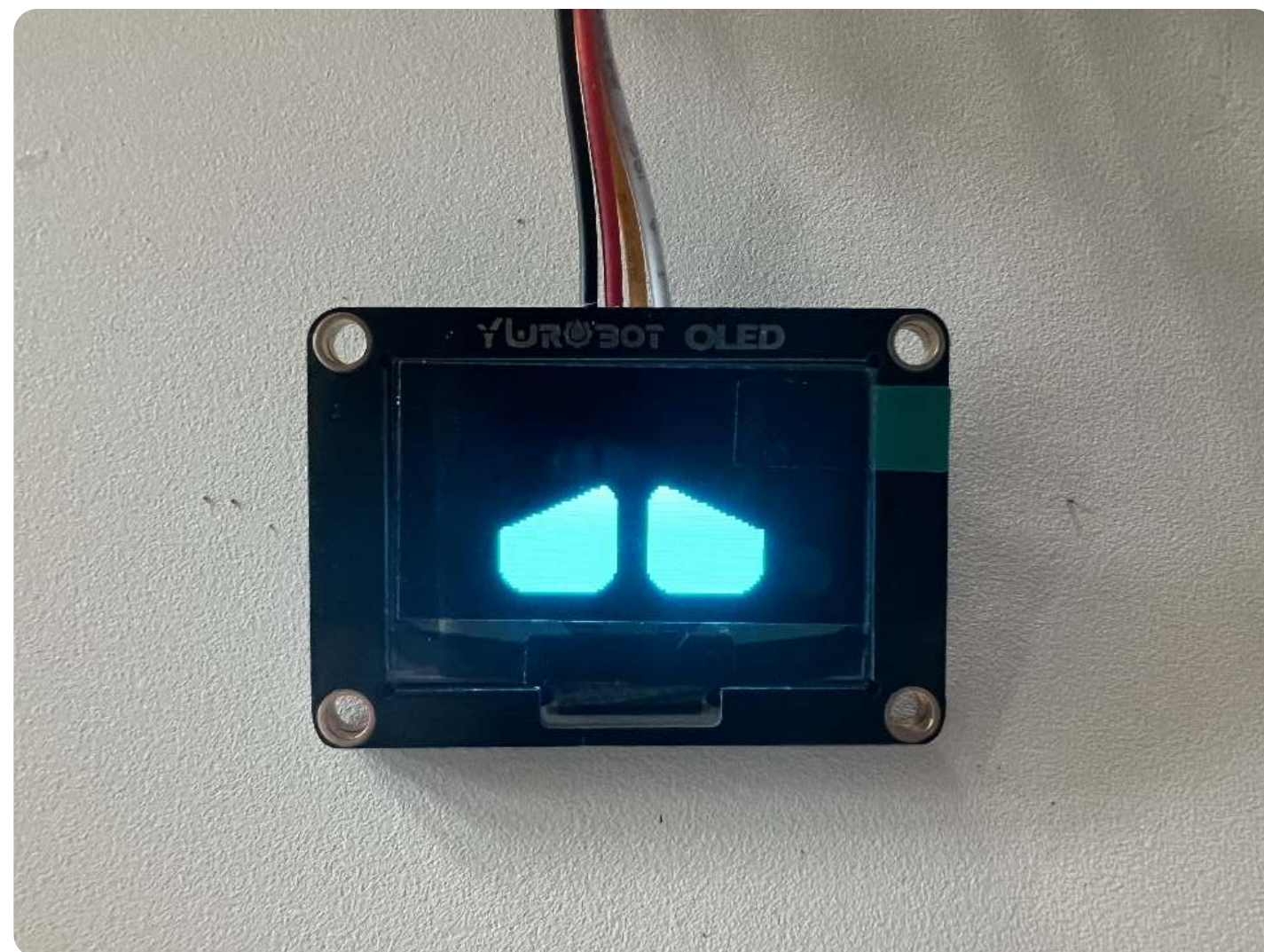
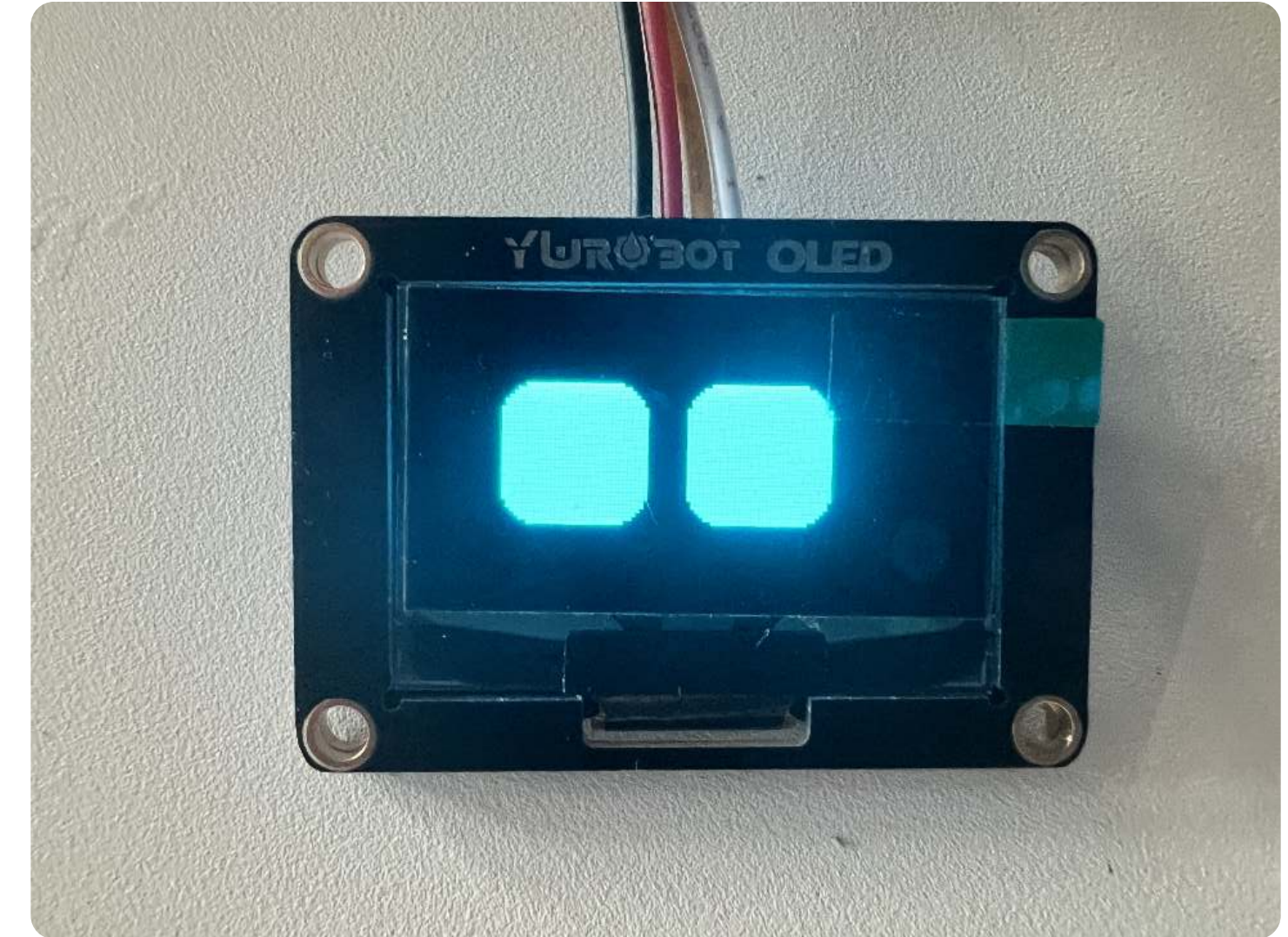
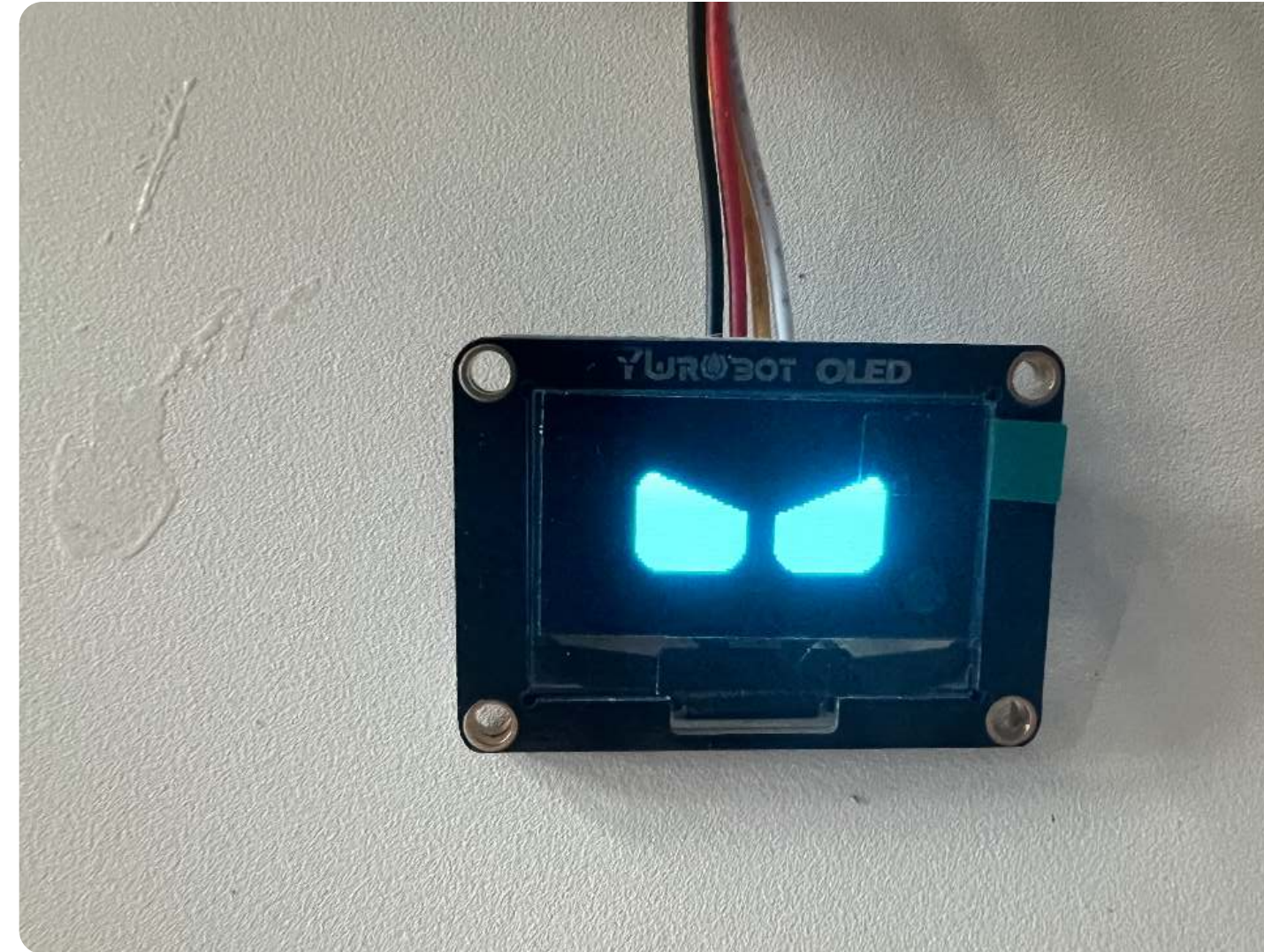
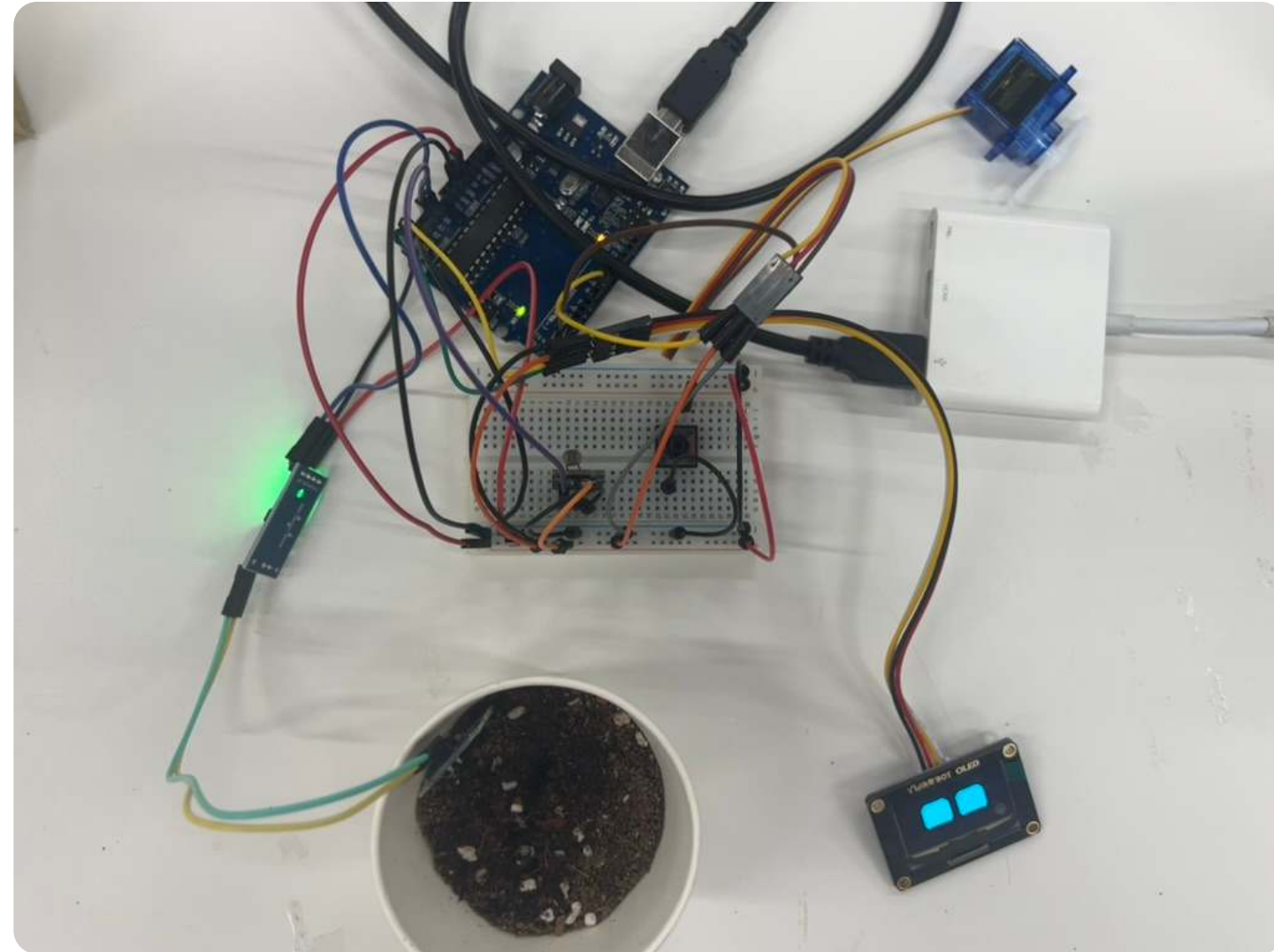
Differentiation

- Encouraging emotional connection, “smart” but not automated care, Bluetooth functionality

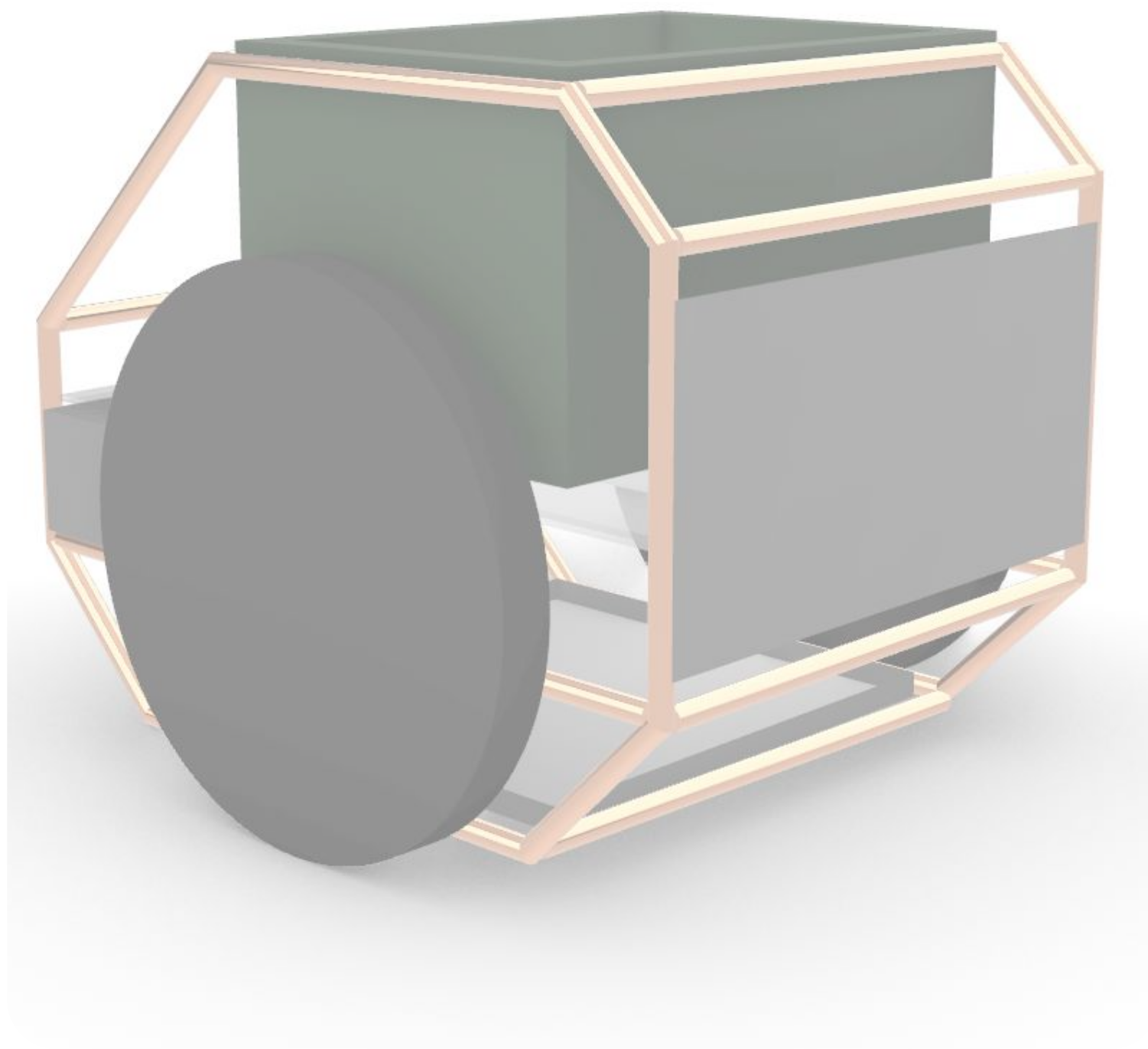




Process Part 1: Circuit Building, Coding, and Animating



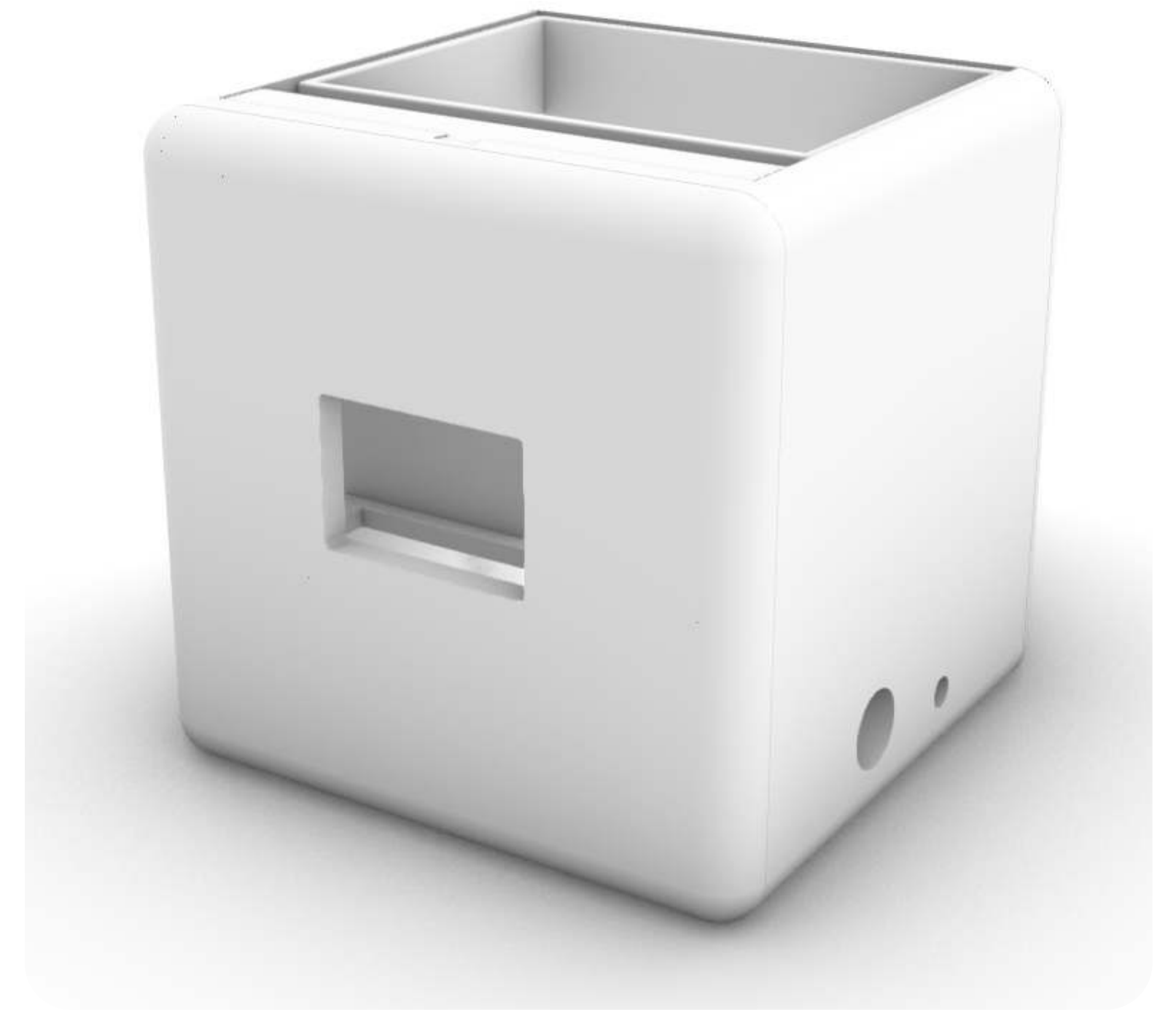
Process Part 2: CAD Modeling



Version 1

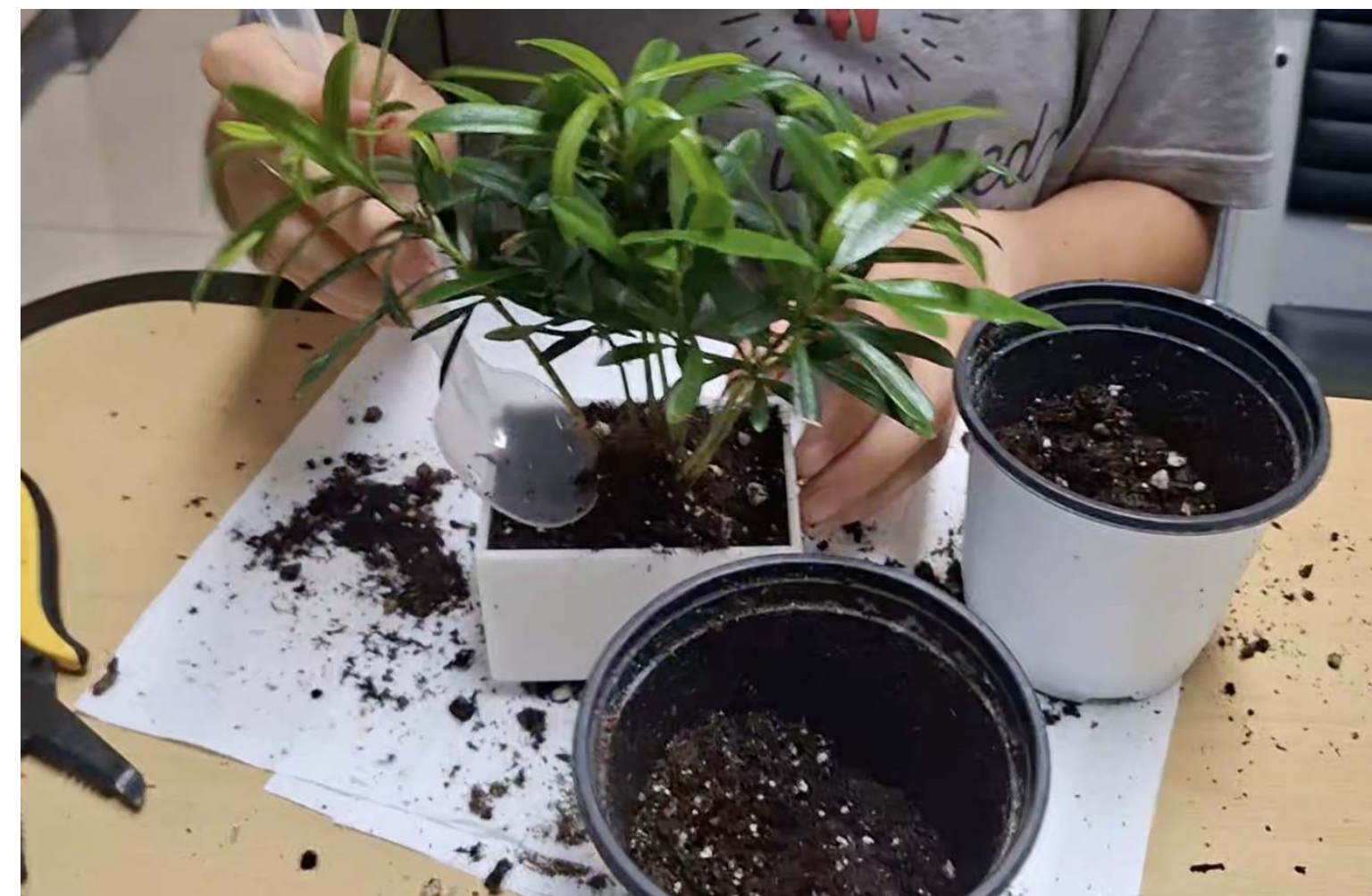
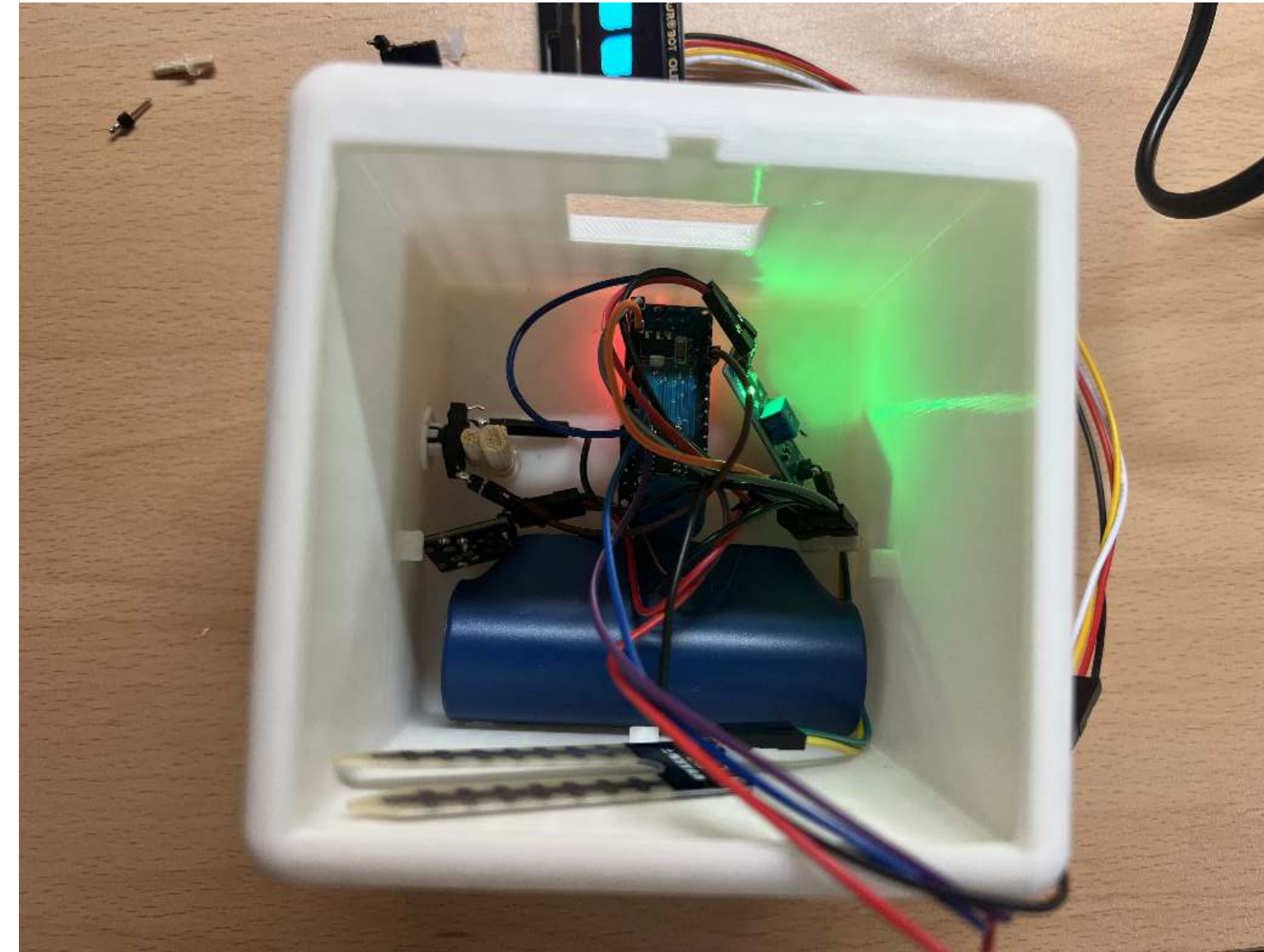


Version 2



Version 3

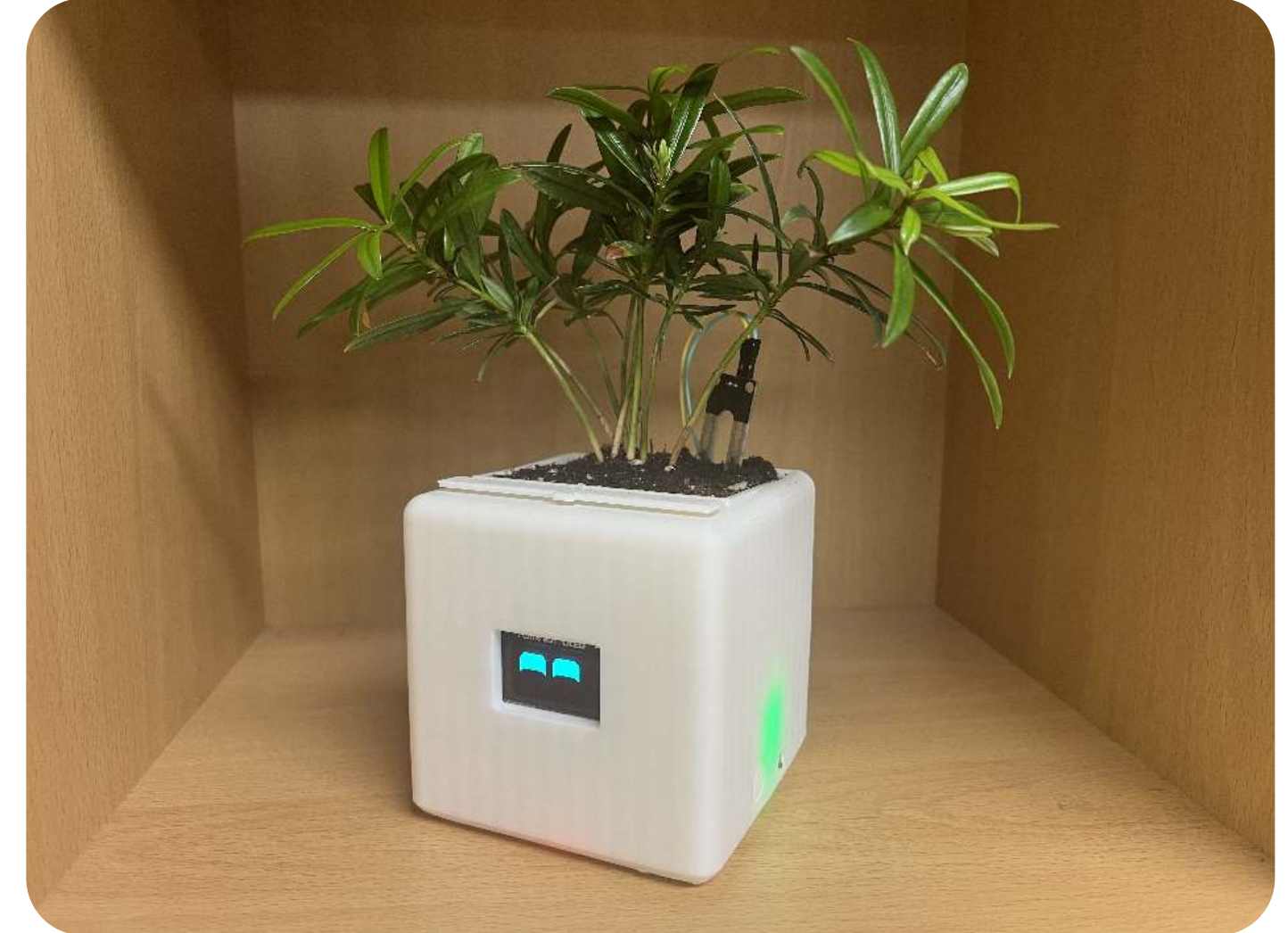
Process Part 3: Building!



Key Changes in Stage 3:

- Arduino Uno --> Nano so it can fit in the housing easier
- Breadboard --> soldering
- USB-powered --> rechargeable power bank
- Planting!

Final Prototype: Product Images



Final Prototype: Video



https://youtu.be/z_wQPkIMmil