

Physical Computing Final Project Pitch

Version 1:

My project is a physical computing device designed to help people with physical disabilities or mobility challenges. It uses servo motors, IR sensors, and an Arduino Nano to automate the opening of small cabinet doors or drawers. The system detects motion using sensors and moves a mechanical arm powered by multiple motors to open and close these doors automatically. The idea is to improve accessibility for tasks that are often taken for granted but can be challenging for some people.

Feedback from Public Health Major:

"That sounds interesting, but are you thinking about how this could fit into real-world settings? For example, would it help people in hospitals, or is it just for personal use? Also, what about people who might have other barriers, like affordability or setup complexity?"

Version 2:

My project is an assistive device that uses motion sensors and small motors to automatically open cabinets or drawers, aimed at helping people with mobility challenges. While it's primarily designed for personal use, I'm considering how it could be adapted for other settings like hospitals or nursing homes, where accessibility is a big concern. I'm also thinking about ways to make it affordable and easy to install, so more people can benefit from it without requiring a lot of technical knowledge or support.

Feedback from Mom:

"That sounds nice, but do people really need this? Can't they just ask someone for help? And how hard would it be for someone like me to use it or set it up?"

Version 3:

My project is a small gadget that makes life easier for people who might struggle to open cabinets, like older folks or those with arthritis. If you wave your hand in front of it, the door opens on its own. I'm working on making it super simple to use and set up—something you could install without needing help from a tech expert. It's designed to make everyday tasks a little easier, so people don't always have to rely on someone else for assistance.