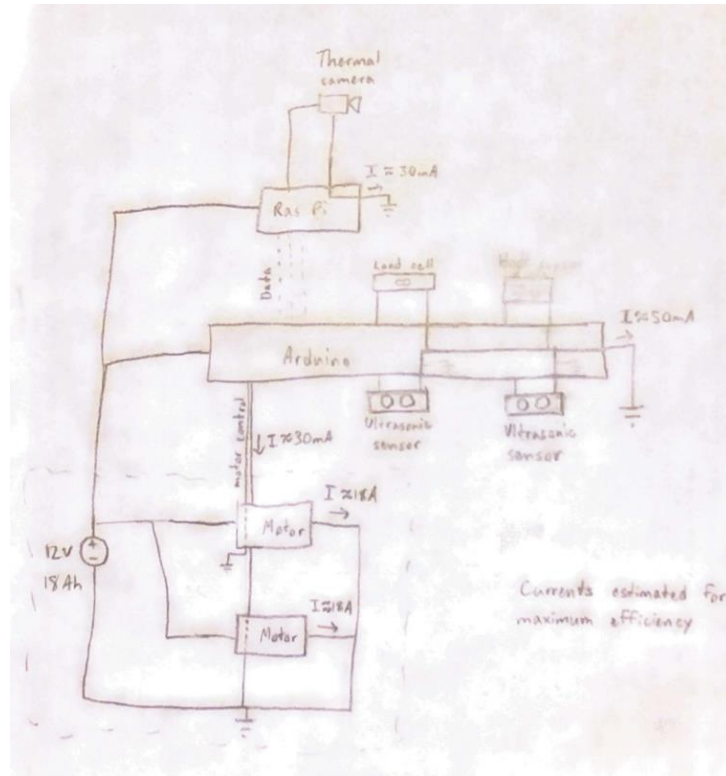


Matteo Longo

Team D1

What did you personally accomplish this week on the project? Give files or photos that demonstrate your progress. Prove to the reader that you put sufficient effort into the project over the course of the week (12+ hours).

- Compile a list of motors, buttons, sensors, batteries, etc.
 - There were several different battery options at 12V, mostly varied by Amp-hrs, price, and credibility for supplier
 - Through research of button options, the viable options were similar to those used on the 18-240 boards, which took too many Newtons to depress. A single serving of appetizer wouldn't be enough to trigger a signal, so we looked at load cells instead
 - Load cells for different weight limits didn't seem to vary much, but I went with 5kg to support a full load of food and the tray
 - Discussed with group on further design choices on structure walling (cloth/poster board), tray (switch to load cell, test before adding different sections), and matching gear boxes with motors
- Finalize parts with my group for purchase
 - I worked with Isabel on optimizing our motors for performance and power consumption
 - Submit purchase forms for batteries
- Draw block diagram to indicate how we will wire all our devices together with the power source
 - For the parts we chose, I found data sheets giving current/power consumption at different usages
 - Using the maximized efficiency for the motors, they still drew the most current by far
 - Battery usage is expected to be about 30 min of movement, more if not moving, which is desired



Is your progress on schedule or behind? If you are behind, what actions will be taken to catch up to the project schedule?

- Our schedule is still good. My work is on schedule, and if I get ahead, I'll help with programming the sensors and/or motors

What deliverables do you hope to complete in the next week?

- Test devices as they arrive for functionality, compatibility, etc.
- Ensure remaining parts are still compatible and order them
- Take measurements of how much current each device draws at nominal usage
- Complete a more detailed circuit diagram