Milestone 1 — Idea presentation 9/14 Wed

If you have formed your group, put your name on the ELMS->People->Group->Semester-long Project

Documentation Due 9/18 Sun

Fall 2022 Home Assignments Grades People Files Syllabus Collaborations Panopto Recordings Course Reserves Adobe Creative Cloud	Everyone Groups Search Groups or People		+ Group
	➤ Semester-long project 1 Semester-long project	4 students	a
	➤ Semester-long project 2 Semester-long project	3 students	a
	➤ Semester-long project 3 Semester-long project	4 students	a
	➤ Semester-long project 4 Semester-long project	4 students	a
	➤ Semester-long project 5 Semester-long project	4 students	a
	▶ Semester-long project 6 Semester-long project	4 students	a
	▶ Semester-long project 7 Semester-long project	3 students	A
	▶ Semester-long project 8 Semester-long project	1 student	A
	Semester-long project 9 Semester-long project	0 students	A
	Semester-long project 10 Semester-long project	0 students	<u>.</u>

5 min presentation + 3 min Q& A

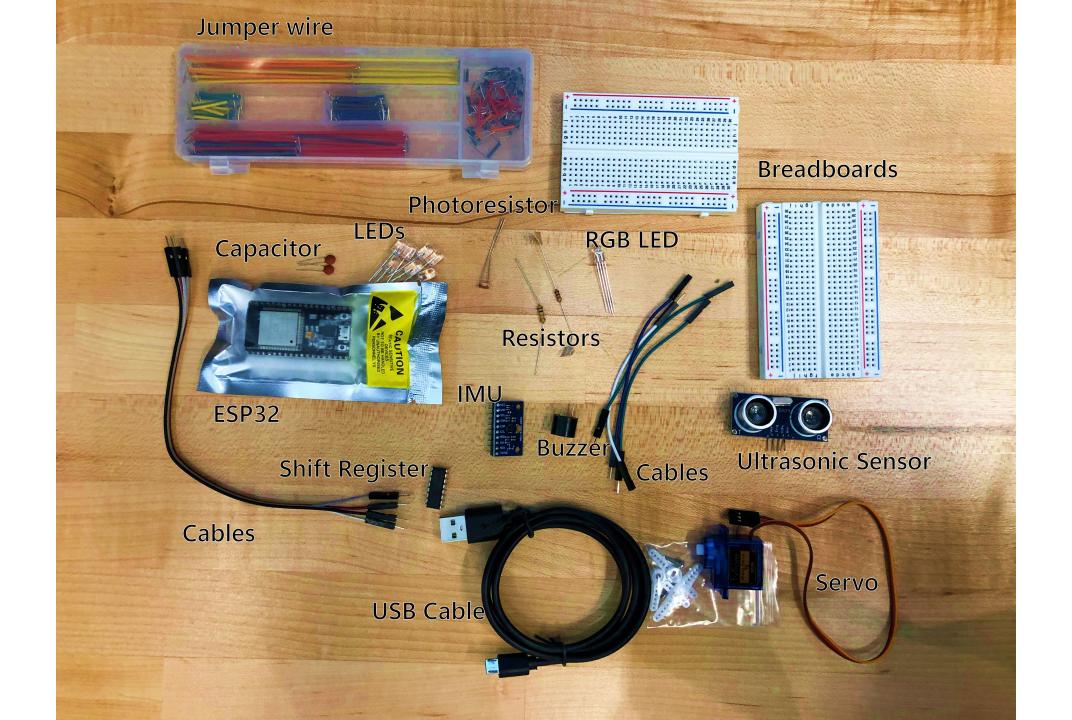
- 2 Options:
- a) Haven't decided on the idea:

 Present 3 of your best ideas and explain to us with sketches
- b) Know what to do:
 Present your final idea what are the functions, challenges and potential solutions

5 min presentation + 3 min Q& A

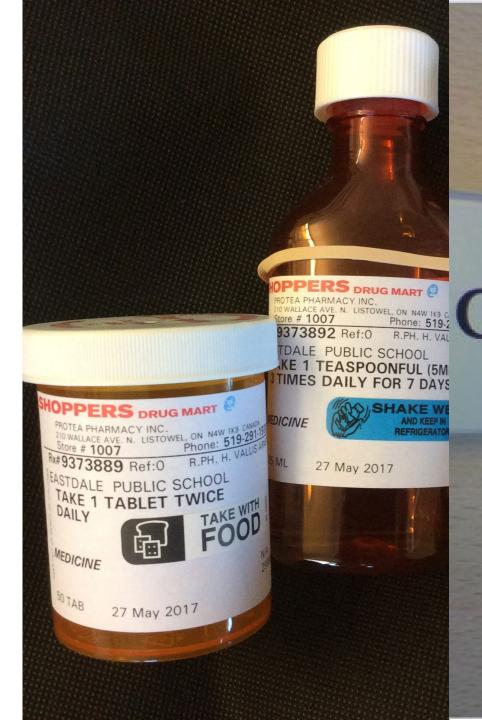
Submit a google doc with:

- a) Problem Statement & Idea
- b) System Block Diagram
- c) Input/Sensing + Output/Actuation
- d) Challenges + Potential Solutions
- e) Bill of Materials(BOM)













\$ 2K+





\$ 775

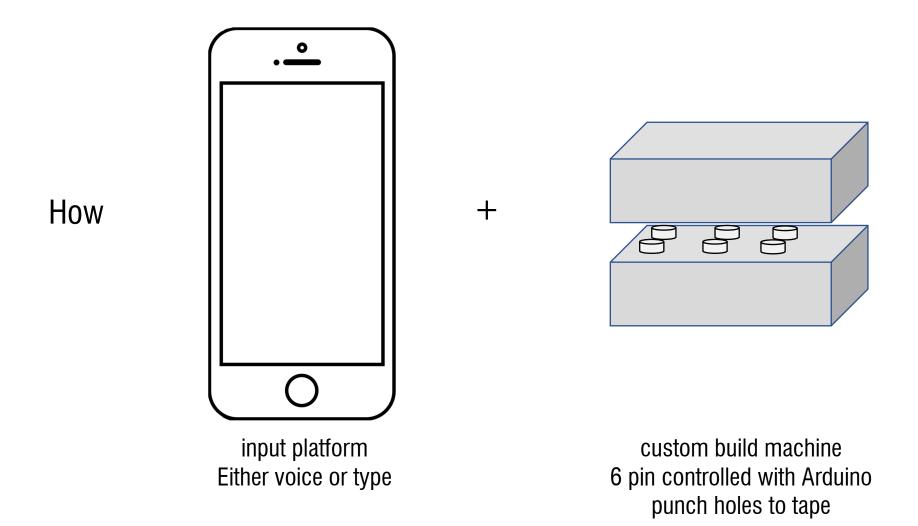
Reizen Braille Labeler

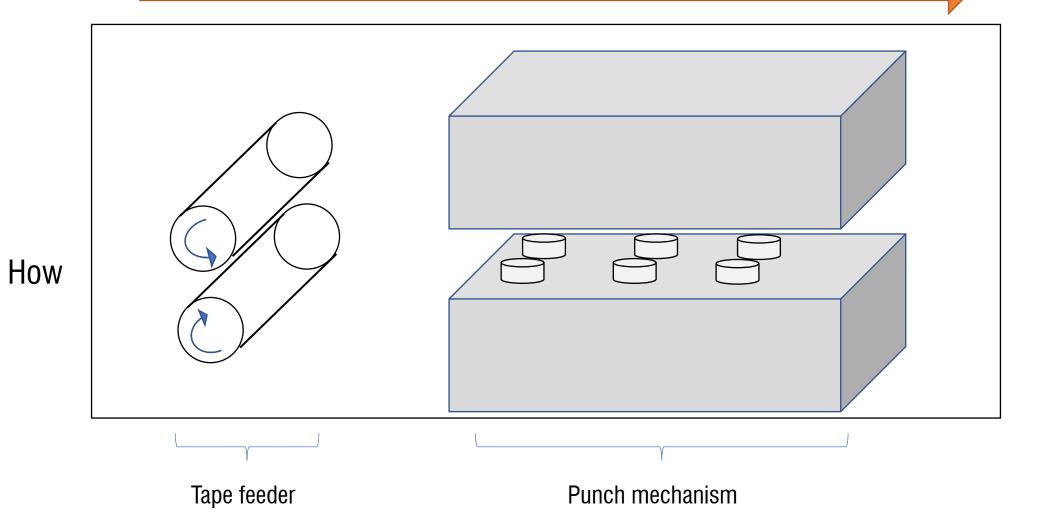


\$ 40+ But fully manual Hard to use The idea Low-cost, portable braille labeler that can be used by everyone

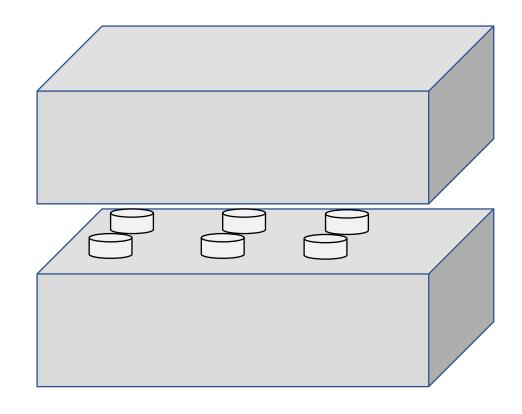
Can be used both Indoor and outdoor

We can create braille label for them





Main challenge



- 1. Limited physical space, dots need to be close to each other how to arrange motors to control each of the 6 pins
- 2. Need large force to create hole or embossing

Potential solutions





Plan for the next milestone

- 1. Figure out the motor to create embossing
- 2. Create one working prototype that can create 2 dots at a close distance



Rest of today's lecture -> Fusion 360 Assembly