Progetto Primo

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Goal: create a robot that is able to interact in a dynamic environment and accomplish predefined tasks that are given to them by a human

Phases:

**Phase 1: Robotic arm**

Create a robotic arm that is capable of the following:

- Can manipulate household objects (frying pan, pencil, etc.)

- Can carry at least 5 pounds

- User operated

- Completed by 12/31/2023

**Phase 2: Apply ML on robotic arm**

- create training data for simple tasks (ex. frying an egg)

- create camera for arm to observe dynamic environment

- The user will give the task in basic english; the robot will interpret the meaning.

- Completed by 4/31/2024

**Phase 3: Humanoid robot**

- Has human-like proportions and is at least 4 feet tall

- has dexterity equivalent or greater to robot arm

- can walk or run

- can carry objects

- only runs off of direct user commands

- Completed by 12/31/2024

**Phase 4: Apply ML on robot**

- create training data for simple tasks (ex. unloading a semi-truck)

- create camera for robot to observe dynamic environment

- The user will give the robot the task in basic english; the robot will interpret the meaning.

- Completed by 9/31/2025