[4]

Project Title: Automated Garbage Bin

Objective:

The aim of the project is to collect garbage and compact it together for space reduction purposes.

Project Description:

- > The compact machine consists of a ground seated frame structure.
- > The frame holds the mechanical parts of the compact machine.
- ➤ The project consists of a wooden frame, three cylinders, and an IR sensor.
- ➤ Items are dropped to the bin in a receiving container.
- ➤ After 5 items have been thrown into the bin, the cylinder **A** pushes the uncompressed garbage to the compressing chamber.
- ➤ Cylinder **B**, in a vertical motion, would compress the collected garbage.
- ➤ Once the garbage is compressed, cylinder **C** is activated to let the garbage out.
- > Identify all elements of the system (Actuators, sensors, etc.).