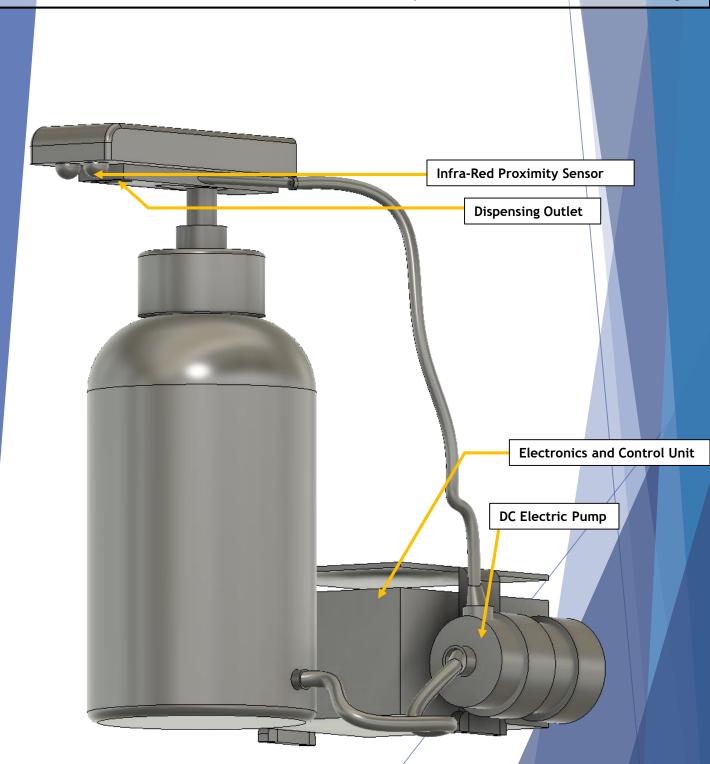
## Automatic Hand-Sanitizer Dispenser

- Automatic Dispensing-Safe and easy use.
- Records the amount of sanitizer dispensed in it's memory.
  - Amount being dispensed per use can be adjusted easily
- Can be attached to any off-the-shelf sanitizer container with minimal modification
  - Manual operation of the container retained-unchanged.



## About...

- ► This machine is based on an Arduino NANO- which is the brain of it's operation. We have coded it so that besides automating the dispensing process, it also records the pump's "active" time- this helps in keeping a record for the amount of sanitizer dispensed.
- ▶ The primary hardware used are: 12V DC Pump and an IR Proximity Sensor. There is a physical button to reset the Counter if required. And a Potentiometer to calibrate the amount to be dispensed per activation. It also has a Multi State LED indicator to make the operation intuitive.
- While in Version 1 (current) of our project, reading the counter data is based on connecting the machine to a computer via USB- We are in process to develop a Version 2 which will have an on board 7 segment display to ease the process of taking readings.
- "Simple yet effective" is the design philosophy behind our model. Physically it's a very simple design- Our machine is basically "Attached" to a normal off the shelf sanitizer bottle and makes it automatic.
- ► The whole unit operates at standard 5 volts (even the 12volt supply to the pump is based on a 5-12 DC-DC boost converter). Machine can be set in places which are "Off-Grid" with a simple USB power bank/Mobile charger. This is useful in situations like- say using such a machine in temporary establishments or on boundary gates of institutes, where generally grid power supply is not available.

This project is completely open source- 3d models, electrical designs, and Arduino sketches for this machine are available on our github page:

