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REPORT

Arduino Soap/Sanitizer Dispenser (overkill version)

Basically an overkill soap dispenser made from CNC linear rail

Oniichan_is_ded

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- Arduino
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- 3D Printing & Imaging
- MAKER FAIRES
- Virtually Maker Faire
- # covid19
- # sanitizer dispenser
- # dispenser
- # sanitizer



Arnov Sharma @Oniichan_is_ded

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Jun 28, 2020

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You gonna need

3D Printed parts

- Upper
- Lower
- lid
- back bone bracket
- END
- Motor End
- Carriage
- Front support
- Back support
- Base (a piece of ply wood will work but ill attach the stl file)

(I've added the link for Thingiverse, so you can download the files from there)

<https://www.thingiverse.com/thing:4349169>

Electronics

- arduino
- ultrasonic sensor
- 12V battery
- A4988 Driver Module
- 470uf Cap



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Jun 28, 2020

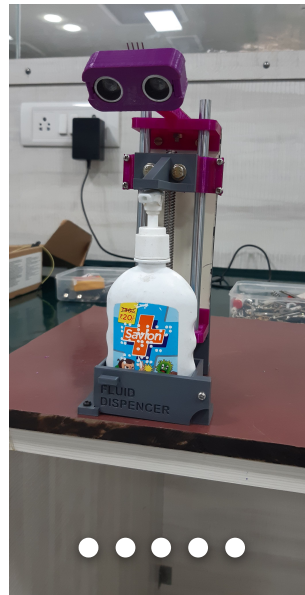


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ASSEMBLY

assembly this is pretty easy, its like putting together a LEGO. just put everything according to the pic given above.

Electronics part is also not very hard, i used an arduino uno with A4988 stepper motor driver along with a 12V li-ion battery pack according to the scheme above and placed them in a plastic encloser i had lying around.



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Jul 6, 2020



stepper_ultrasonic_soap_dispenser.ino

1 KB File



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CODE



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Jun 28, 2020



Automatic Soap/Sanitizer Dispenser



Result

Watch the video for final result, this project is no well documented so if you want to replicate this project and want any help, just leave a comment!



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Simone Jul 7, 2020

Yesterday I was at the grocery store and I was thinking how it wasn't very smart that everyone was touching the hand sanitizer dispenser! They need this

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Oniichan_is_ded Jul 7, 2020

Exactly, what's the point of sanitizer dispenser if everyone is touching.

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