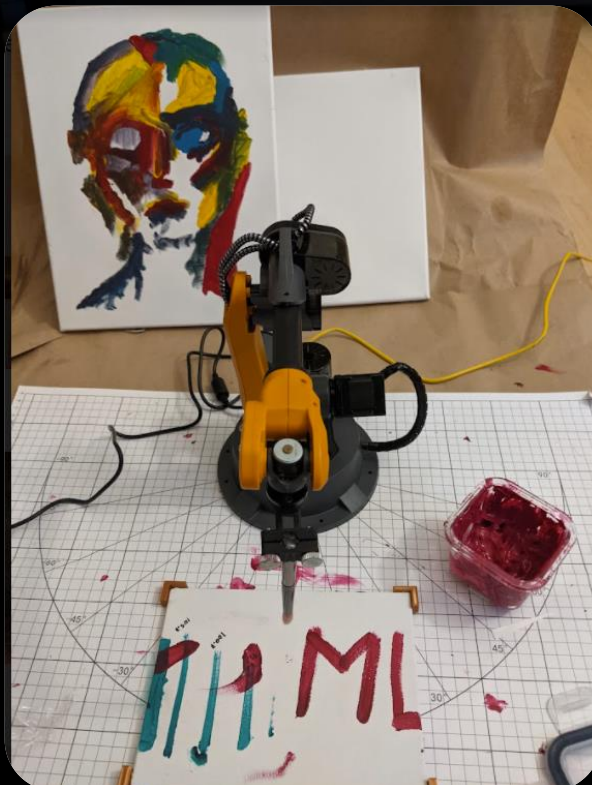
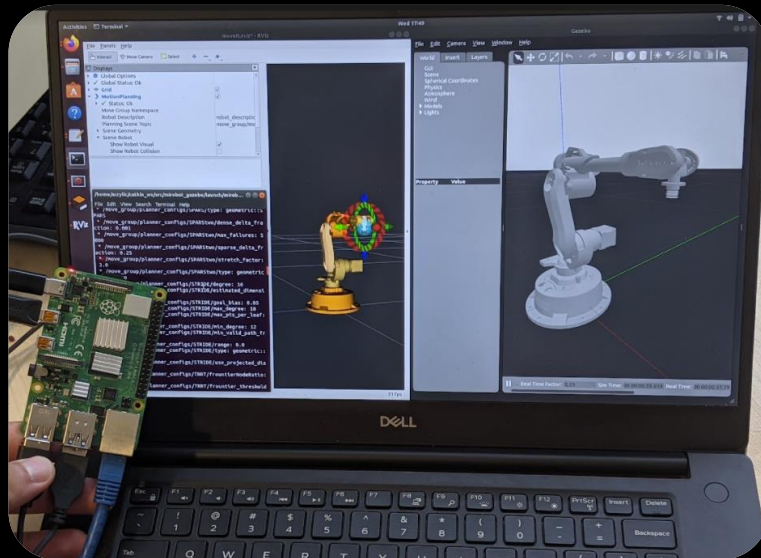


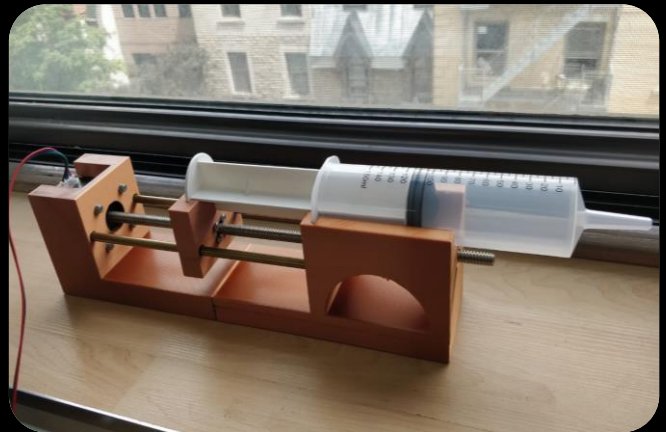
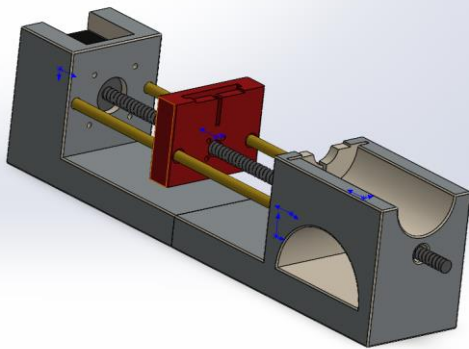


ROS Development on a Raspberry pi running Ubuntu.

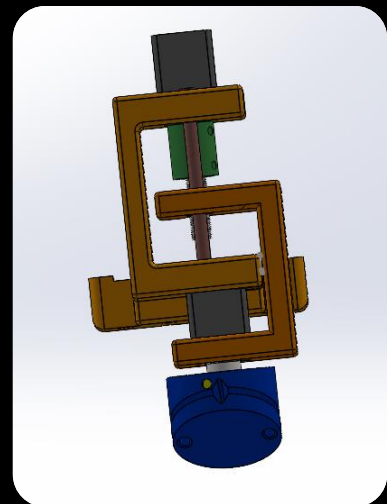
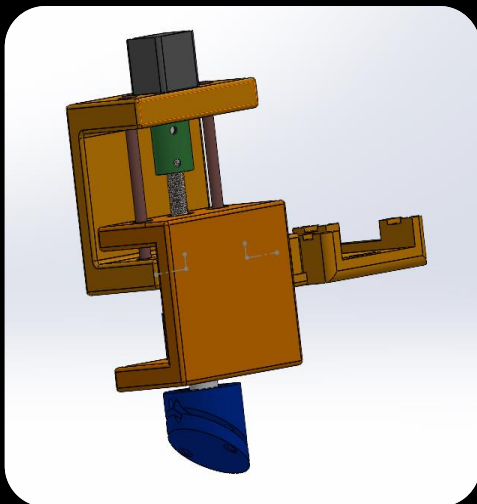




This is a paint distribution mechanism made in SolidWorks. Paint is stored in the syringe and can therefore be extruded through a tube at a constant and controlled rate.

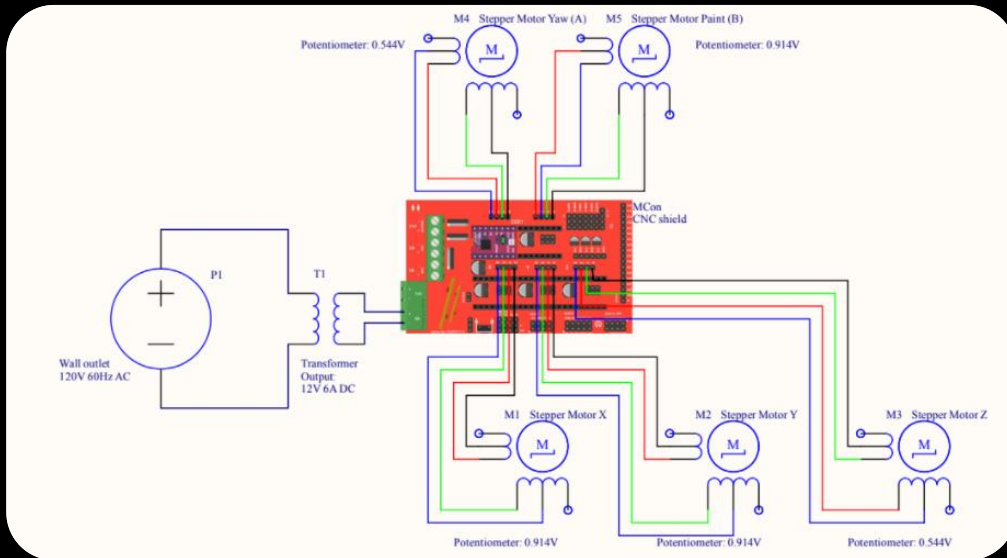


This is the end effector made in SolidWorks. The two motors can control the two degrees of freedom (Z and rotational yaw) that the paintbrush can move at.





This is a very simple electrical system of the prototype. The wiring schematic was done in Altium.



G-code commands are sent by the UGS to the CNC shield on the prototype.



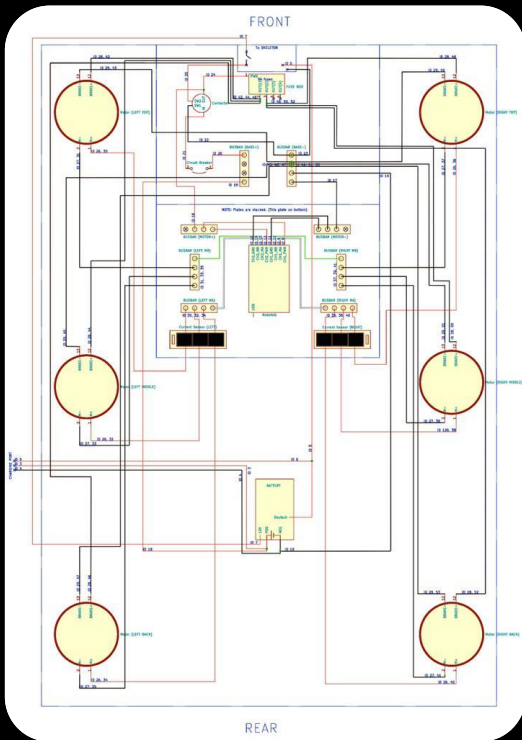
THR Top Hat Robotics

This is the snow-plow robot I was responsible for assembling/testing. I did everything from drilling to soldering.

I also designed the battery cage and camera mounts.



THR Top Hat Robotics



Wiring schematic done in KiCAD along with two electrical plates that I wired and co-created.

