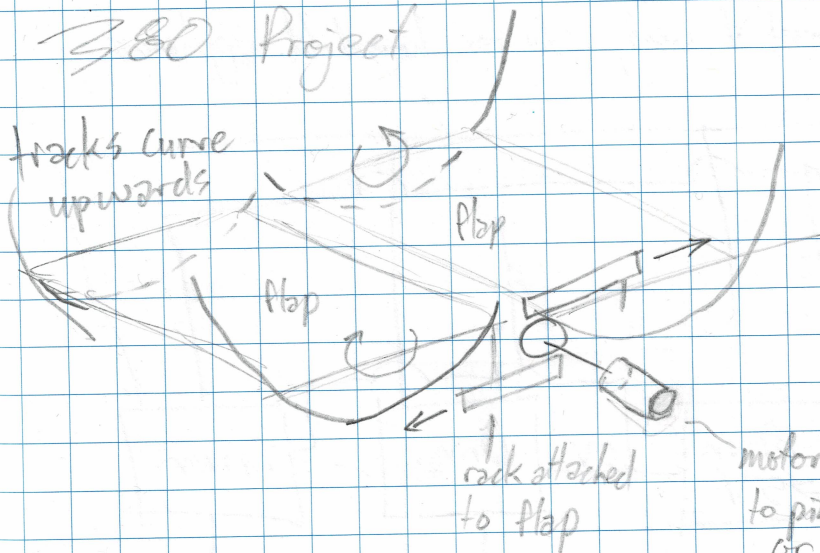


380 Project

tracks curve upwards



Drawing of general idea for mech, not very fleshed out

Emily has motor ideas - how to control?

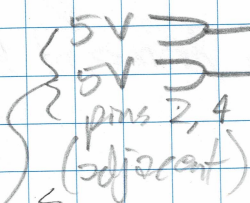
Stepper motors

How much current? How to supply it?

How to control motor?

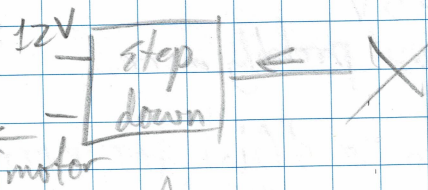
dirⁿ of power flow

- 1) Nano needs
- 2) Refraction needs
- 3) Circuit



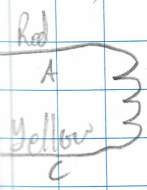
up to 2.5A each

spacing?



All Jackson Nano interface pins default GPIO except I2C & UART

Unless 12V is the high voltage available



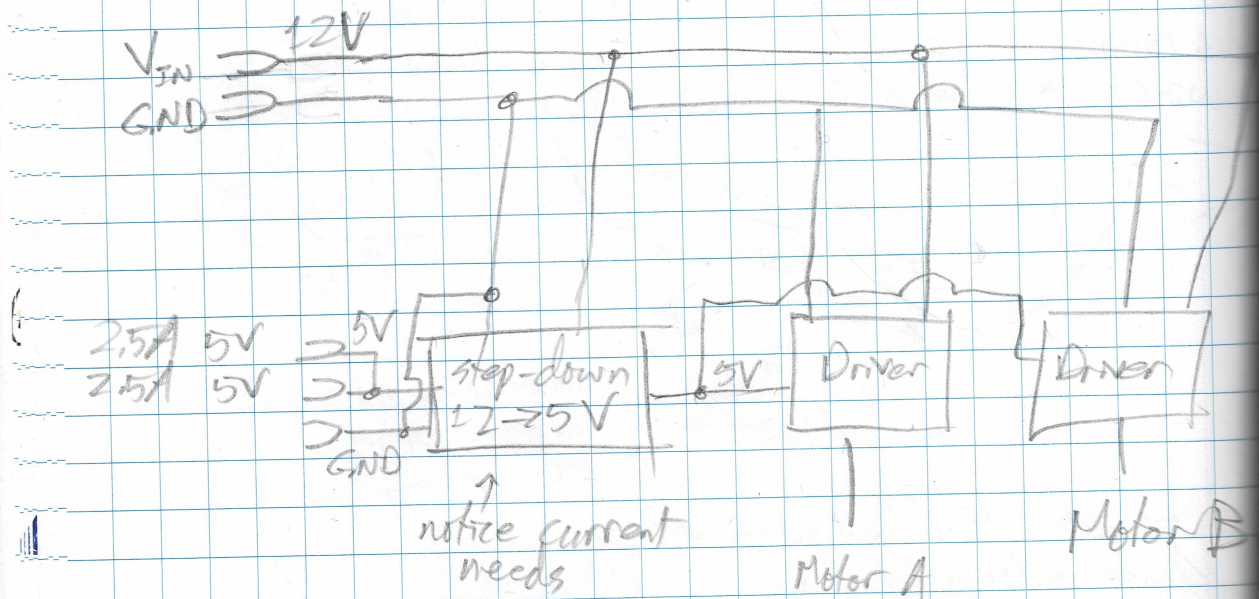
stepper motor

low η

Look for driver

NEED Driver

12V in \rightarrow most V used, safe for household appliances



2.5A each to Jetson Nano

Motors both rated 12V 0.35A

\rightarrow is much current supplied to drivers at 5V?

Do these also need?

DC DC converter:

12V \rightarrow 5V

5A but probably more

Jetson Nano is 10W for normal performance,

5W for less energy use

\hookrightarrow do not power by USB 2 pins at same time

2 drivers & 6A step-down converter selected

Buck converter has poor documentation

Which Nano pins to connect drivers to?

Need stepdown converter symbol for schematic