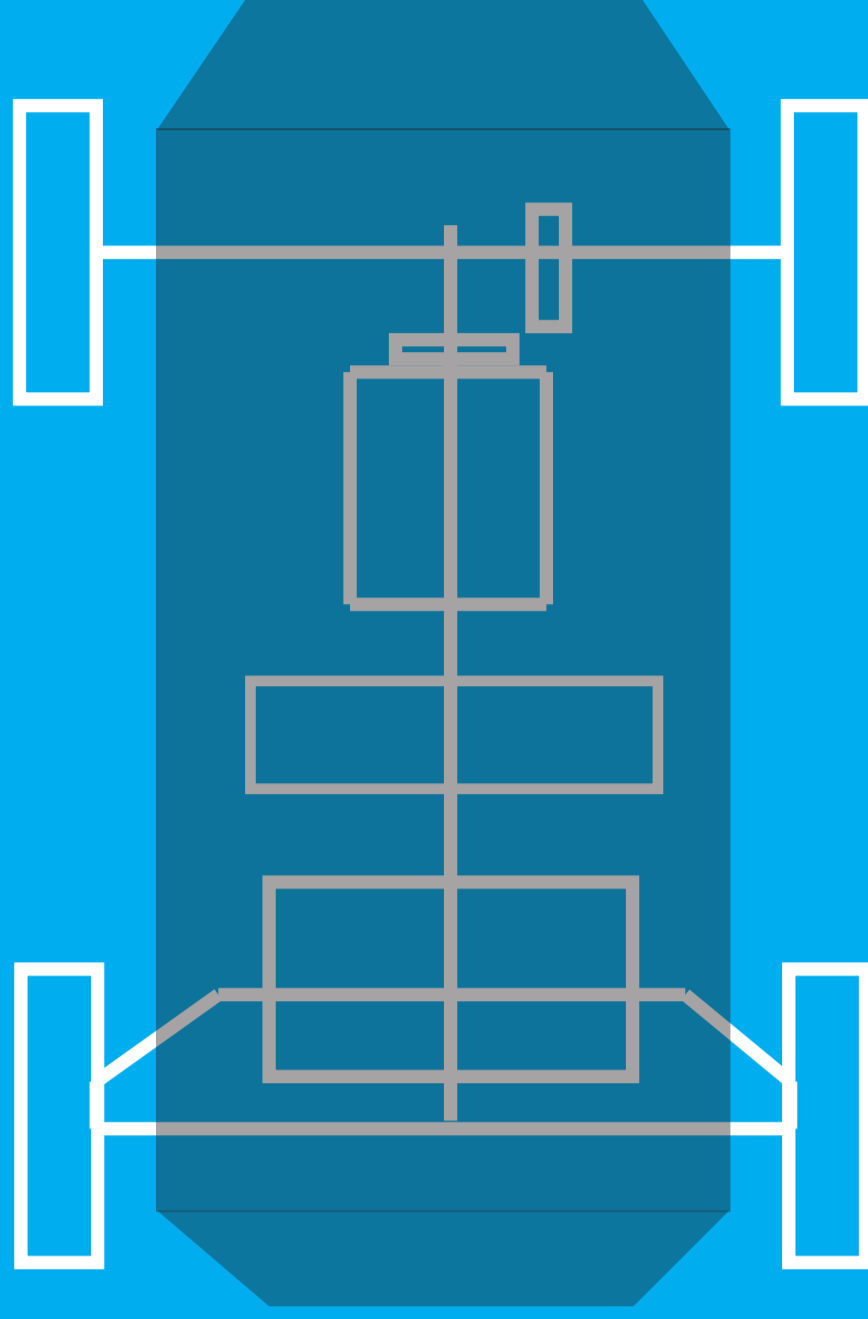


Huskeh Tech Industries

JASON ALEXANDER DIGNAN



What

This is going to be a bluetooth enabled remote control car. Steering will be done by using rack and pinion style gearing with the drive being powered by crown gears. Control will be enabled by the use of an Arduino Nano.

How

The chassie, and gearing will be created using laser cutter. Body and specialized parts will be 3D printed. Control will be enabled with Arduino Nano. The controlling device will be a Samsung Note 5. Programming will be completed in Arduino and Processing.

When

Concept designs and prototyping has already begun. By December 2nd a chassie and assembly will be manufactured. Drive system and steering system will hopefully be completed by this time. Circuit design, and Arduino design should be completed and implemented.

Post this period, asthetics will be attended to, as well as refinements to design. Prototyping and manufacturing will take the least amount of time. It is trouble shooting that I expect to take the most time.

Materials

- 1 Geared DC motor
- 1 Servo Motor ~ \$10.00*
- 1 Arduino Nano
- 1 L293D H-bridge Motor driver ~ \$10.00*
- Wood
- 3D print Materials
- Retractable pen springs
- Small bolts with fitting nuts ~ \$5.00*
- Small PCB board
- Glue, bolts, nuts, and other fixatives.

Total Cost: Approx. \$25.00

*item that is not currently owned, and therefore is budgeted. Machine use time is not accounted for at this time.

Equipment

- 3D printer
- Logilase Laser Cutter
- Soldering Iron
- Note 5 Phone

Approach

Body and mechanics will be mostly Laser wood. Hardware mountings and specialized parts will be 3D printed.