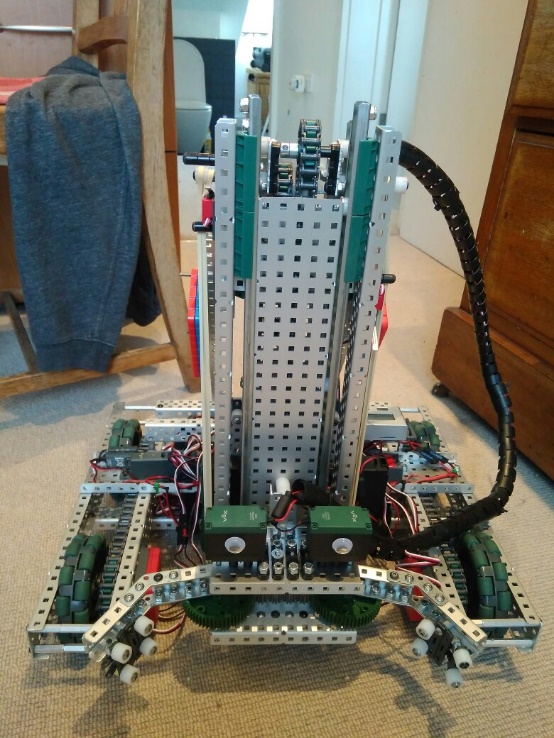
Robot V 1.27



SPECIFICATIONS:

* 6 Motor HS drive
* Two drive chains
* 4 wheels
* Aluminium structure
* 4 motor lift
* Three stage lift
* 2 motor claw

DIMENTIONS:

17.5” \* 15” \* 17.5 when not extended

**What needs to be changed:**

* Add mobile goal manipulator element to claw
* Add PID
* Add stabilisers

By Robbie Buxton

30/7/2017 – 20:36

**Overview:**

This version of the robot is getting very close to being ready to be handed over to our programmers. The first things we added today were two limit switches to (to know when the lift is at the top and very bottom) and an integrated motor encoder (to implement PID) to the lift. We also added a Potentiometer to the claw so we can later also implement PID. The next thing we did was to remake the claw. We removed the standoffs and replaced them with spacers on tank tread which are far better at gripping the cone. We still need to add the module to the claw to manipulate mobile goals however since they still haven’t arrived yet we need to wait until we can do that. The final thing we did today was to add rubber bands to assist the lift. This allows it to be faster and stronger when going upwards which is essential as our lift is multifunctional and needs to be able to lift a whole stack.

**WHAT HAS BEEN CHANGED:**

* Added integrated motor encoder
* Added two limit switches to the lift
* Remade the claw
* Put number plates in a better position
* Added elastic bands to assist lift.
* Added Potentiometer to the claw