

Logged by Robbie Buxton

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**Future Changes:**

* Fix axle squeaking problem (move or lubricate)
* Move motor and gear system inwards by one notch
* Build to full design

**Changes Made:**

* N/A – Initial build

**Overview:**

This is the first version of the base and robot. It is built to a slightly smaller specification than we will use in the end due to not wanting to commit to cutting metal before we are certain with the design. At the moment, we are experimenting with a drive train system. This is because we found in the prior season that if not on a drive chain motors tend to obstruct mechanisms and can cause intake problems. We have also decided to use at least 6 motors on our base due to the fact that we do not need any more than 5 motors for our lifting system; 2 on the primary lift, 2 on the secondary and 1 on the claw. After testing the system briefly, we have come to the conclusion that general system works however some of the gear axles need their position to be slightly tweaked as they are causing squeaking. We also think that it would be beneficial to try and move the motors and the gear system in by one bar to try and reduce space.

**Specification:**

* 6 Motor HS drive
* 2 drive chains
* 6 wheels
* Aluminium structure

**Dimensions:**

* 17.5″ x 15″

Robot v1.0