

**Changes Made:**

* Remade the first stage with nyloc bolts
* Added mount for second stage
* Attached second stage

**Specification:**

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

**Dimensions:**

* 17.5” x 15” x 17.5”

Robot v1.06

**Overview:**

For this version of the robot we have remade the first prototype version of the lift. It is now held together with nyloc bolts meaning it is far stronger. We have also added a second stage to the lift. The second stage is held in the mount on the first stage and is fastened to the chain allowing it to move up and down in the y axis. To make the third stage of the lift we need two 12 tooth sprockets so we wait for them to arrive we must keep it to two stages. We also tested the strength of the lift using a newton meter finding it could lift up to 3kg. this means that when we add two more motors it should be able to lift upwards of 6kg. The crucial factor is whether or not the chain inside the lift could support the weight. The tensile strength provided on the website states that the chains is approximately 22.5 kg so we should be fine, however we will run our own tests to confirm this.

Logged by Robbie Buxton

05/07/2017 – 15:49

**Future Changes:**

* Add a third stage
* Add 2 more motors
* Attach to robot