



PIT

# PIT STOP

QUARANTINE  
EDITION II

QUEST  
BORN TO ENGINEER

MASCOT  
dynamics

AEQUUS

35

NEWSLETTER  
APRIL 2020



# PITSTOP

April'20

Dear readers,

**Welcome to our monthly newsletter!**

Here are the updates for the month of April:



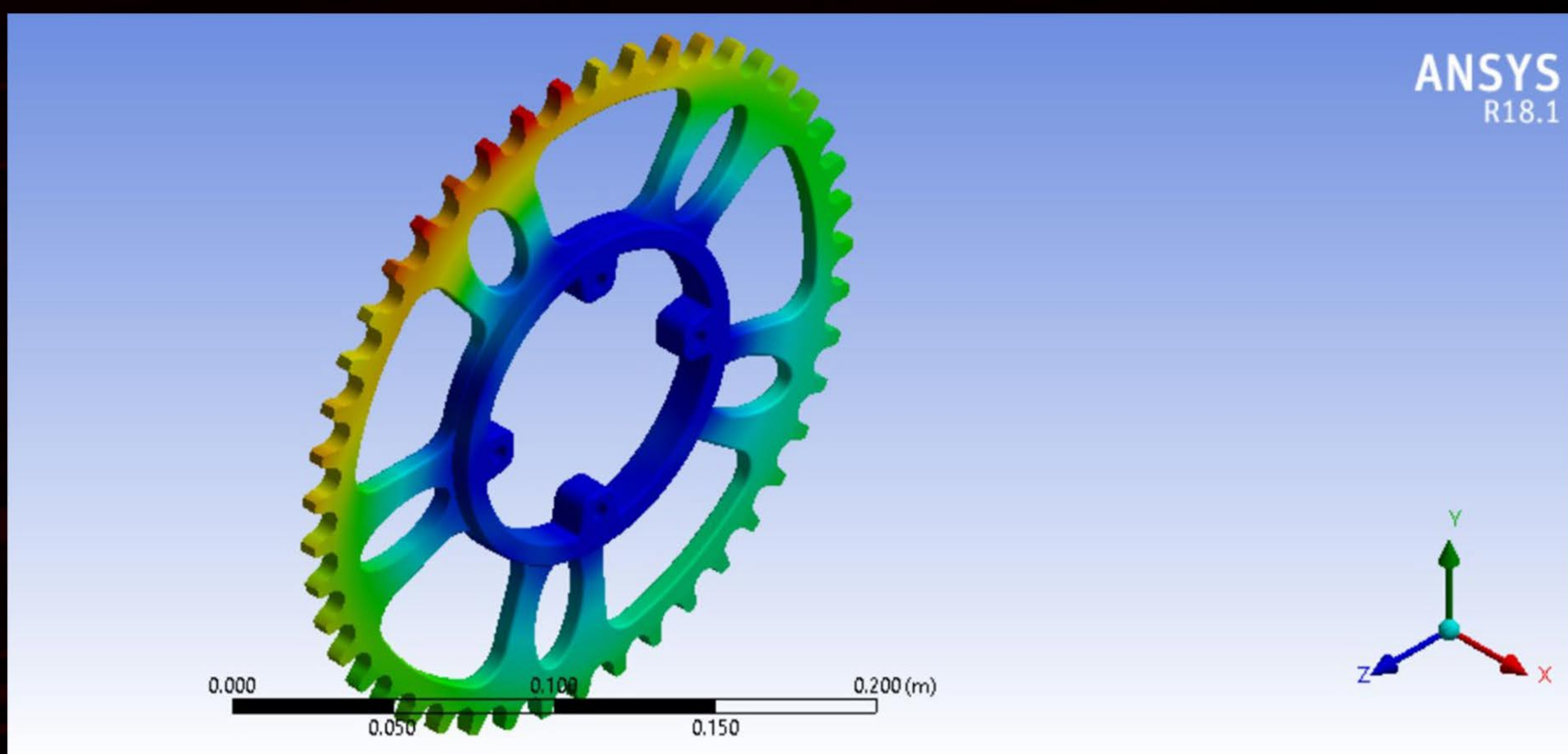
## Electronics

The team has completed the Dash and Console box OCB design. Variables like Radiator fan motor ratings are yet to be finalized and once completed, the PCB will be finished. The team had also conducted online Knowledge Exchange Programs (KEPs) as a part of the recruitments.

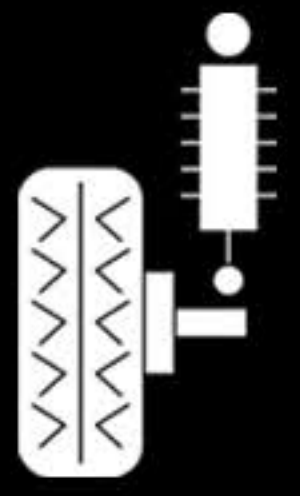


## Powertrain

We finished the spocket design. The profile was generated to fit in a 520 metric chain. The design was analysed to check if it can withstand forces. The spool was modified, and the design and analysis for adapters was done. The exhaust muffler design was finished as well.







## Vehicle Dynamics

The team has completed the design of Wheel Assembly, with the required parts ready to be procured. Interference checks are to be done and some final weight reductions have to be carried out before sending them for manufacturing.

The springs in the suspension are being optimised for the current geometry of the car to improve the ride quality and response to dynamic loads. The A-arm geometry has been improved to provide better cornering stability as well as ensuring straight line stability while braking. We have completed the steering design and we are currently looking for ways to procure parts for manufacturing.



## Aerodynamics

The radiator position is being finalized by the team and once complete, the radiator inlet duct will be modified according to the mounting flexibilities. We aim to perform mass flow analysis on the radiator duct to finalize the design, and to make the heat transfer more efficient through the radiator.



## Marketing and Media

The team has concluded with the recruitment process after careful and meticulous screening. A contact list has been set up to initiate mailers and the team is regularly following up with various companies and potential sponsors in the automotive field through various platforms like LinkedIn. Despite the global pandemic that created a setback to our operations, we have come up with alternative plans to tackle the situation.



The media team recruitments ended on 5th April after which the new recruits were instructed and given assignments, along with arranging online meets. Our social media handles on Facebook and LinkedIn were restarted with new posts, content and updates, along with creation of a new YouTube channel for podcasting for our alumni and followers.

Another milestone for the team was crossing a 1000 followers on instagram. We have also teamed up with our new recruits to create a website to increase our reach. Currently we are working on publicity material for the newly formed EV team as well.



*zooming away into the future*

Team **NITKRacing**



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