



**Garrett**  
ADVANCING MOTION

# Team Design assignment

**Create set of virtual solid blocks in CAD system such a way that you would be able by putting them together form a virtual model of Tesla Model Y car later on. Simply use them as building bricks similar to Lego style kit in imaginary space.**

## **Keep within following constraints:**

- Total number of used blocks can not exceed 300 pieces
- The model virtual space is limited by boundaries 160 x 70 x 55 mm
- Number of sets of blocks with one unique shape, color and dimensions can not exceed 6
- Number of blocks in one set with the particular shape, color and dimensions can not exceed 70
- Do not use more than 4 colors for blocks
- Potential shape of the block in each set is absolutely free based on teams strategy
- Building blocks for wheels are not included in total number of blocks and are considered as special block outside limited set of blocks
- Time for block's shape design and building a car model is limited

# Evaluation criteria

## **Team performance will be assessed based on following:**

- Image of the model will be captured by Google Lens app and it has to be recognized by the app as Tesla Model Y car – Google Chrome has to identify real car image from net with relevant information - this is a must to qualify team for further assessment, maximum three attempts are acceptable
- Describe team's strategy for designing blocks shapes in short presentation
- Show summary of all block shapes with numbers used for model creation
- Document time required for block shapes design and car model creation both