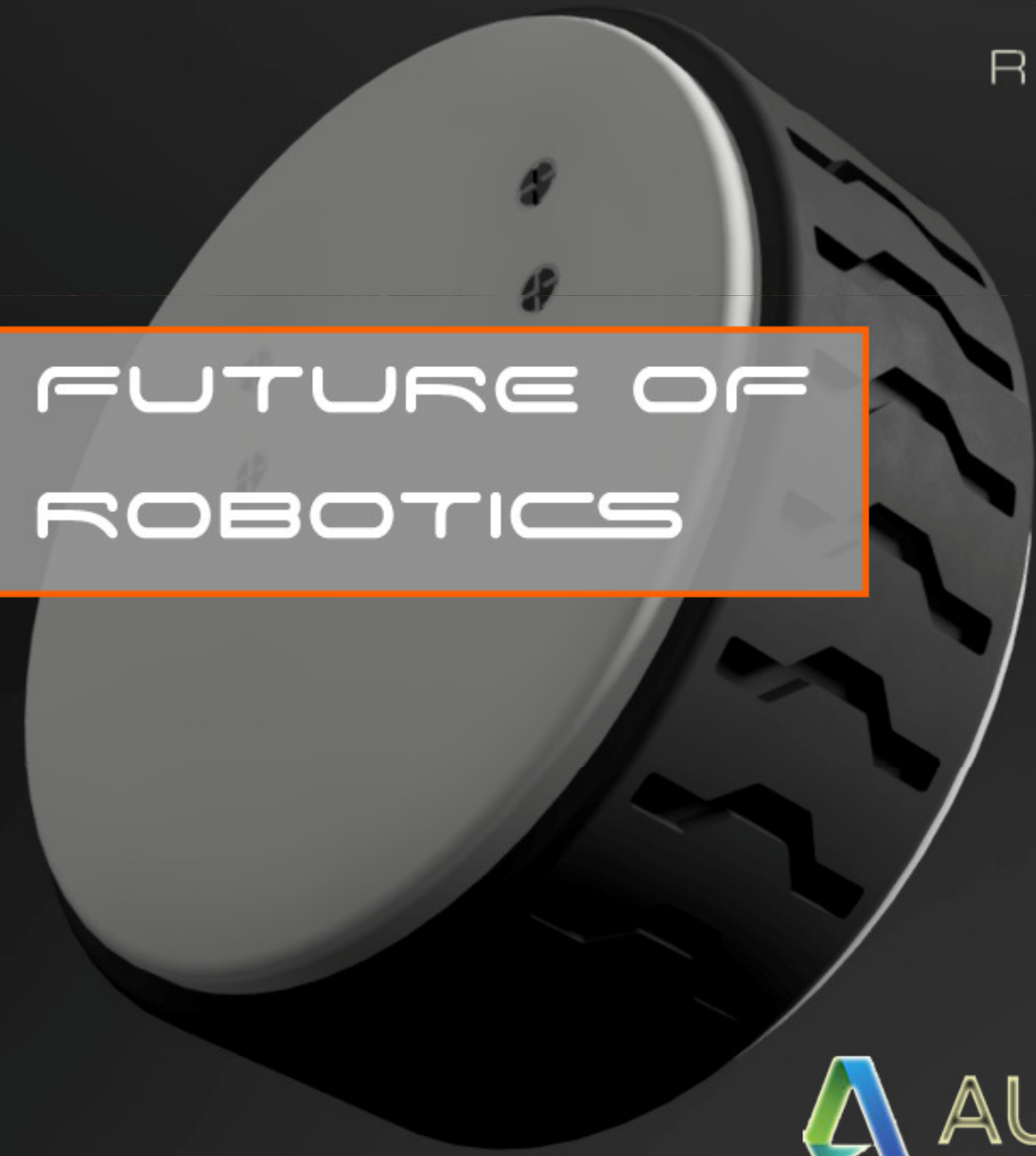
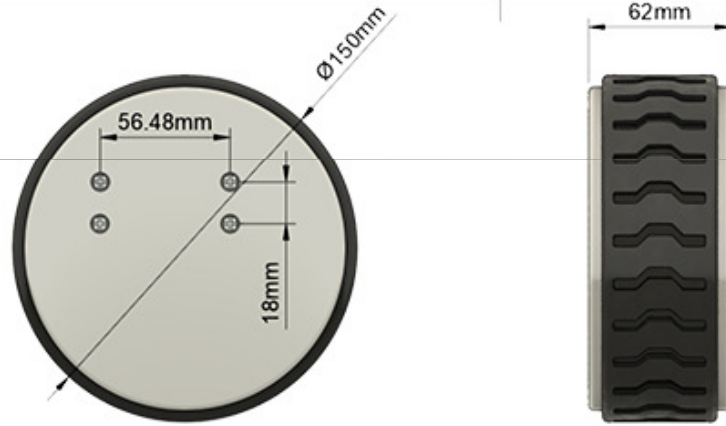




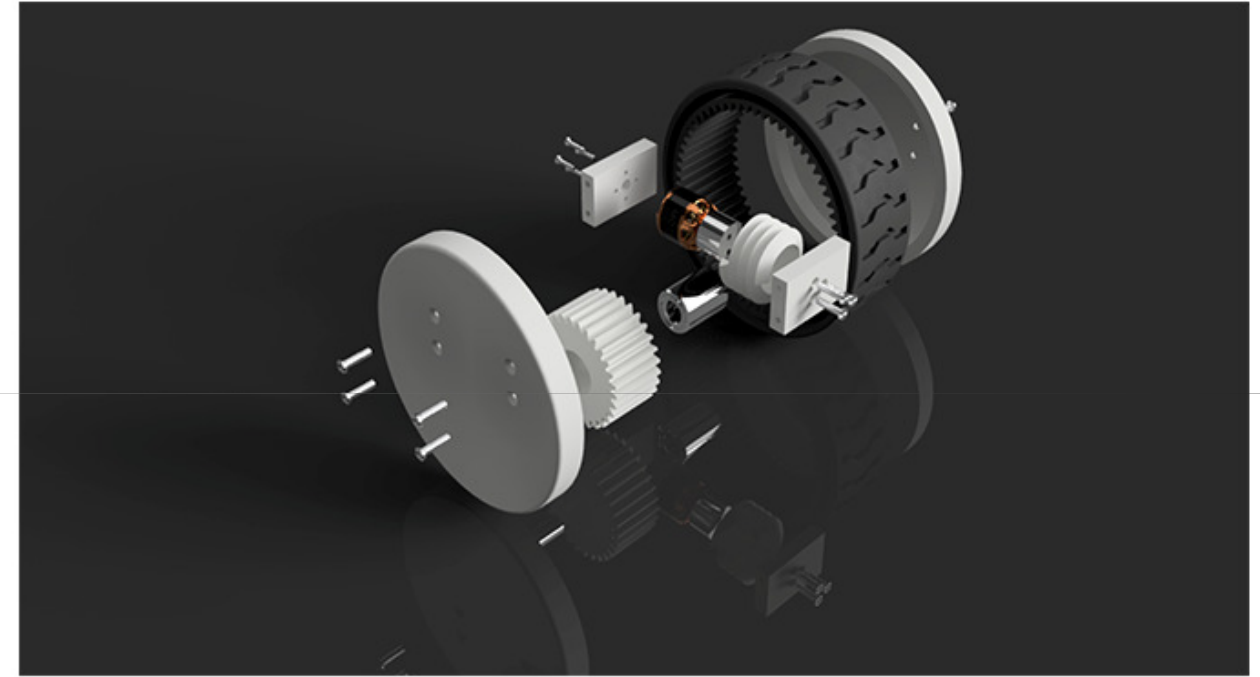
FUTURE OF
ROBOTICS

MULTI
PURPOSE
ROBOT
WHEEL

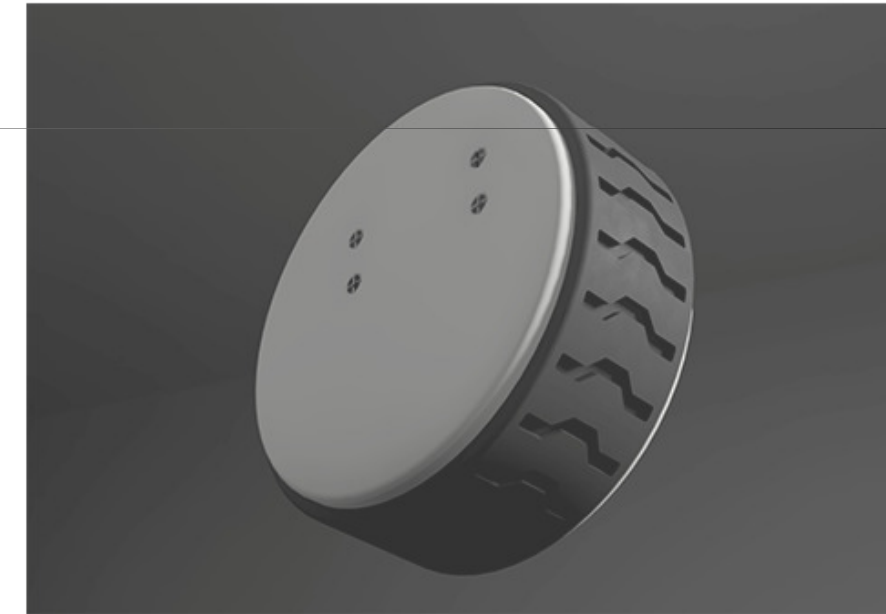




MULTI PURPOSE ROBOT WHEEL



- HIGHER GROUND CLEARANCE
- HIGH TORQUE THROUGH WARM GEAR
- SIMPLE ASSEMBLY THROUGH 4 SCREW
- SUITABLE FOR EVERY ROBOT (VERTICLE OR HORIZONTAL MOUNT)
- COMPACT SIZE ,SAVE SPACE.
- EASY TO ASSEMBLE,NO SHAFT & BEARING NEEDED.
- SAVE TIME IN MANUFACTURING.





AUTODESK
FUSION 360™

V : 2.0.4801



AUTODESK®



MULTI
PURPOSE
ROBOT
WHEEL

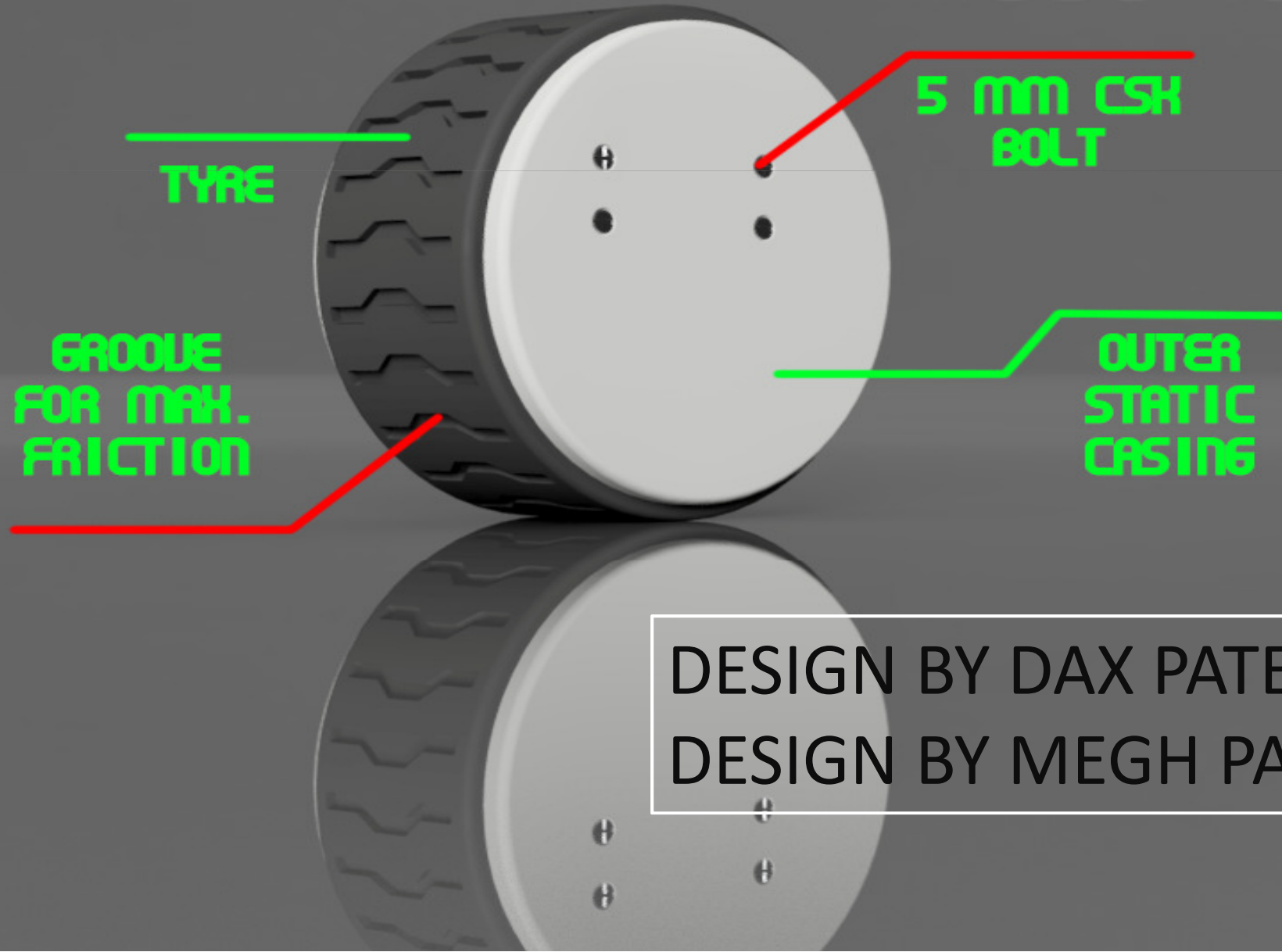
GROOVE
FOR MAX.
FRICTION

TYRE

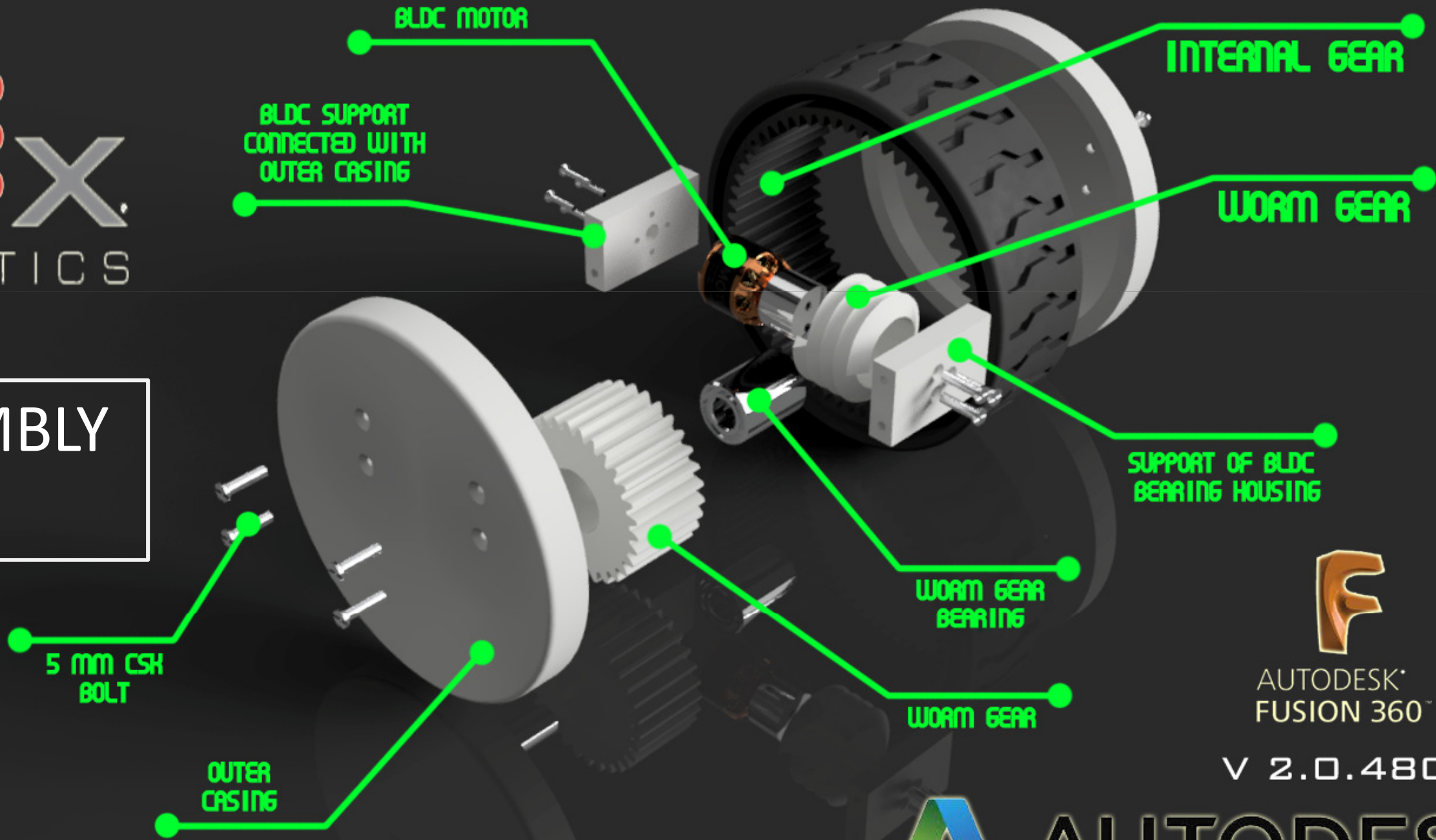
5 mm CSK
BOLT

OUTER
STATIC
CASING

DESIGN BY DAX PATEL
DESIGN BY MEGH PATEL



ASSEMBLY
VIEW

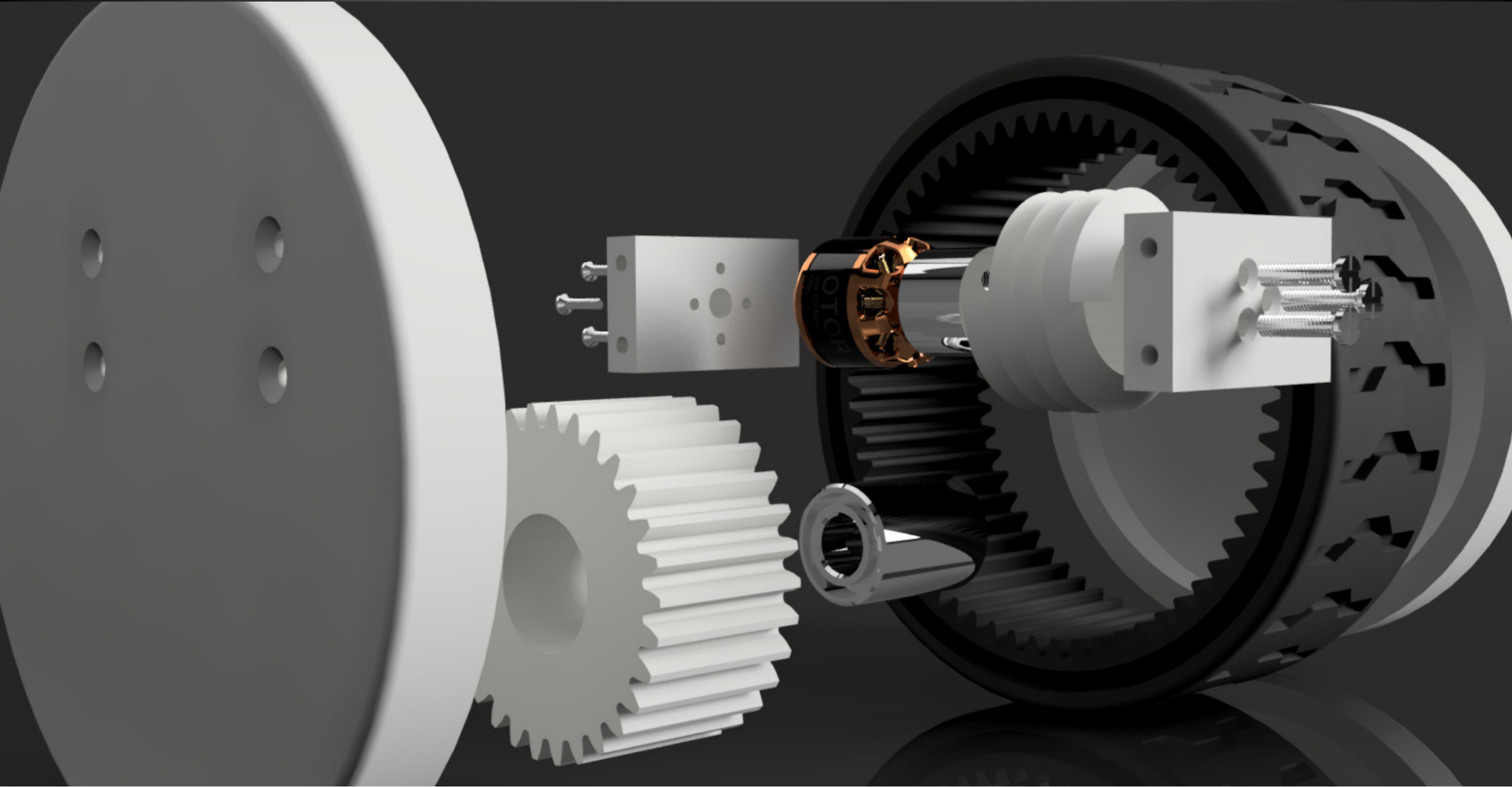


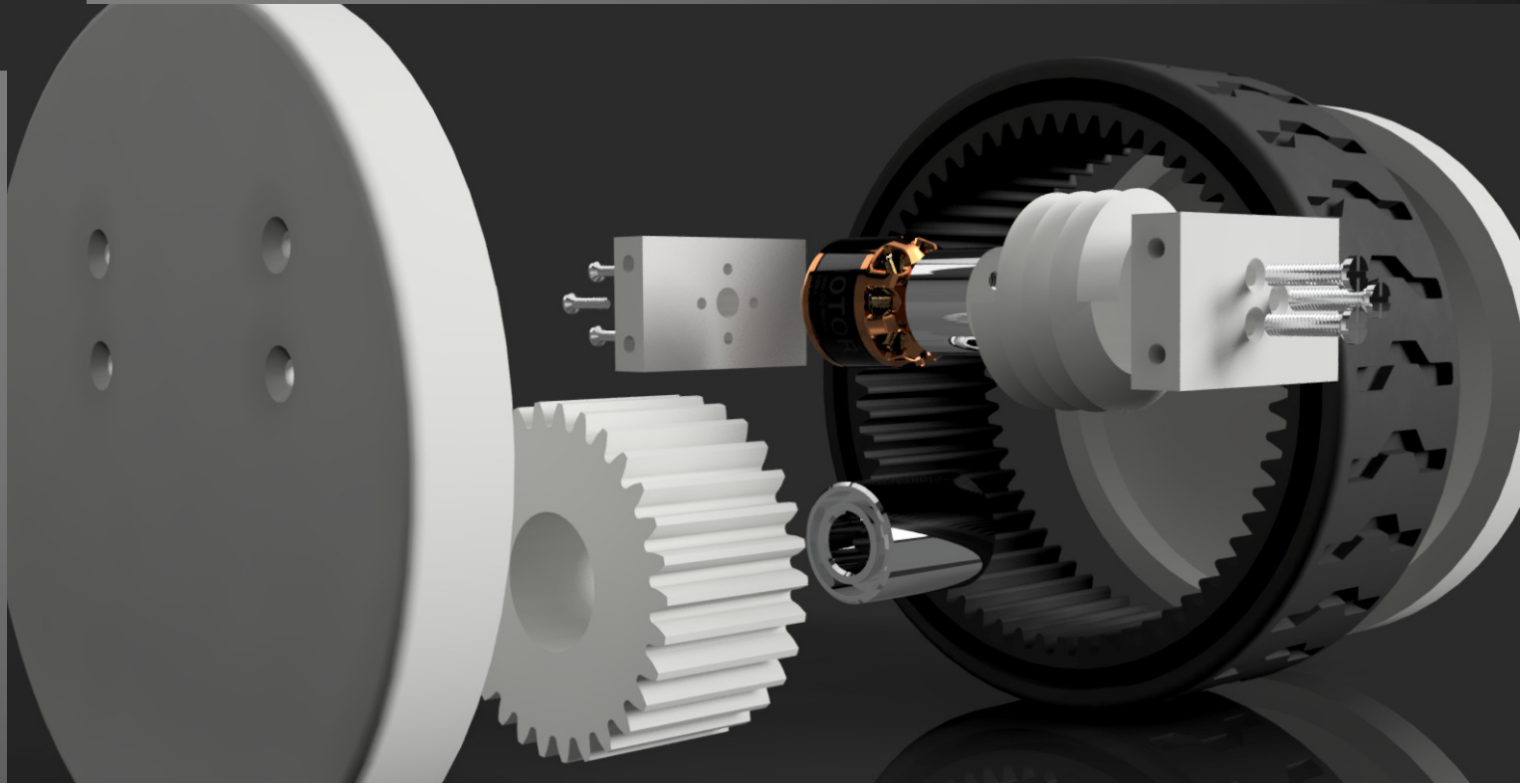
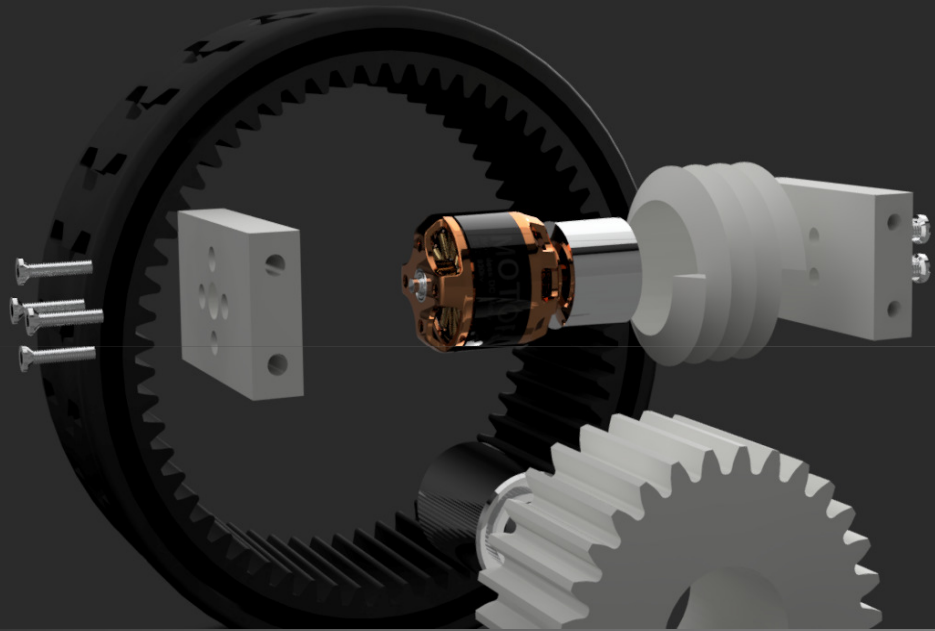
AUTODESK®
FUSION 360™

V 2.0.4801

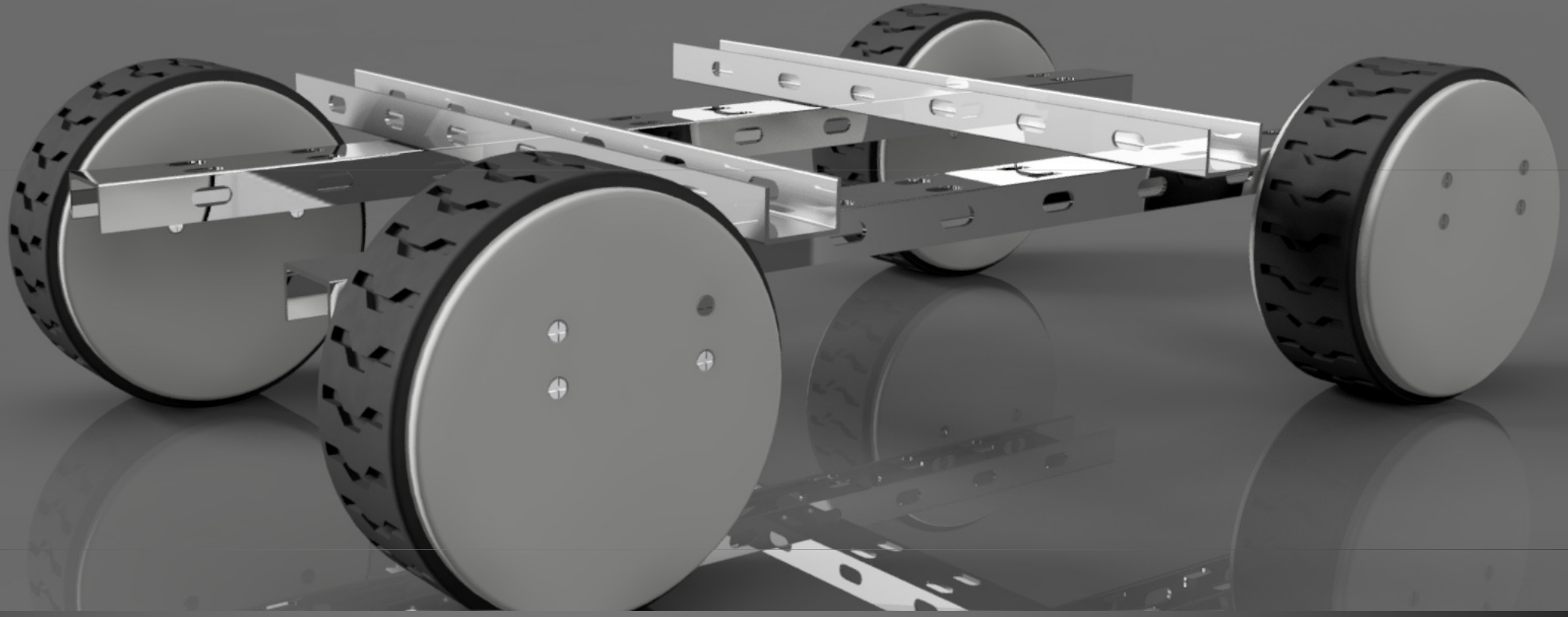


AUTODESK®

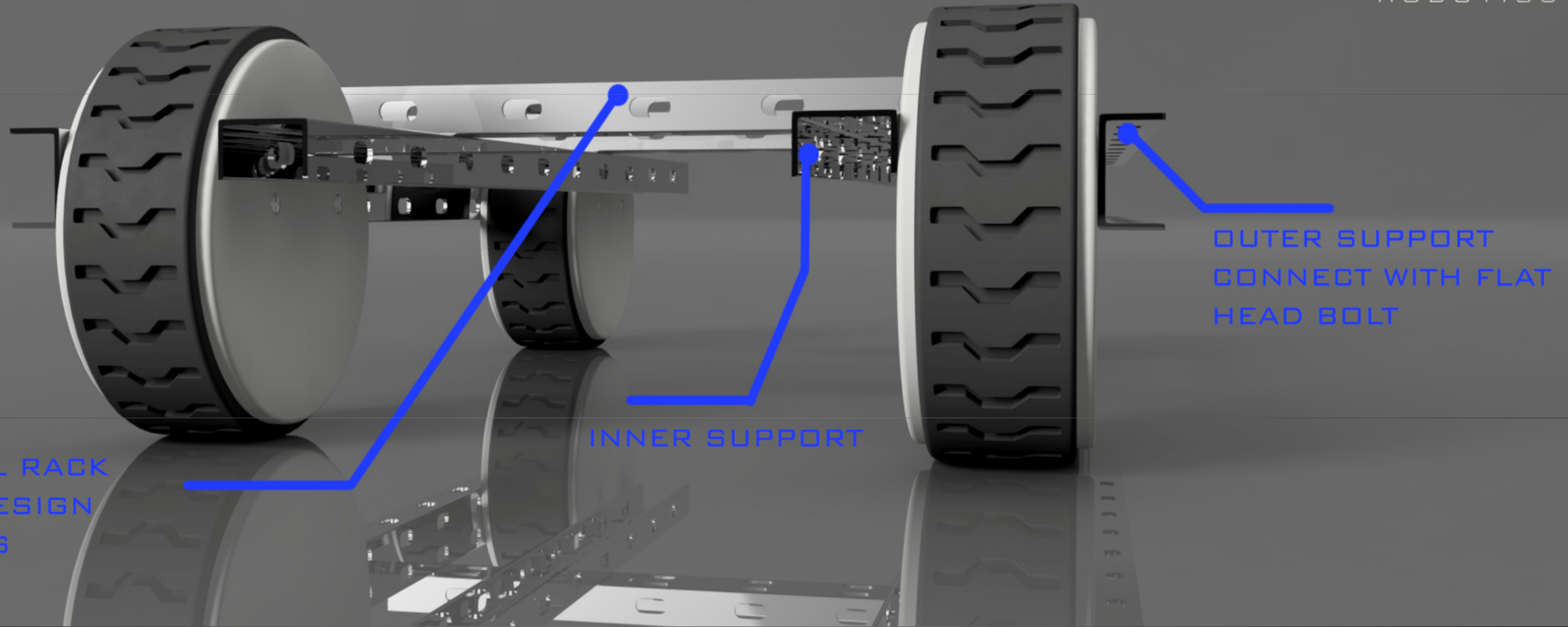




APPLICATION - 1



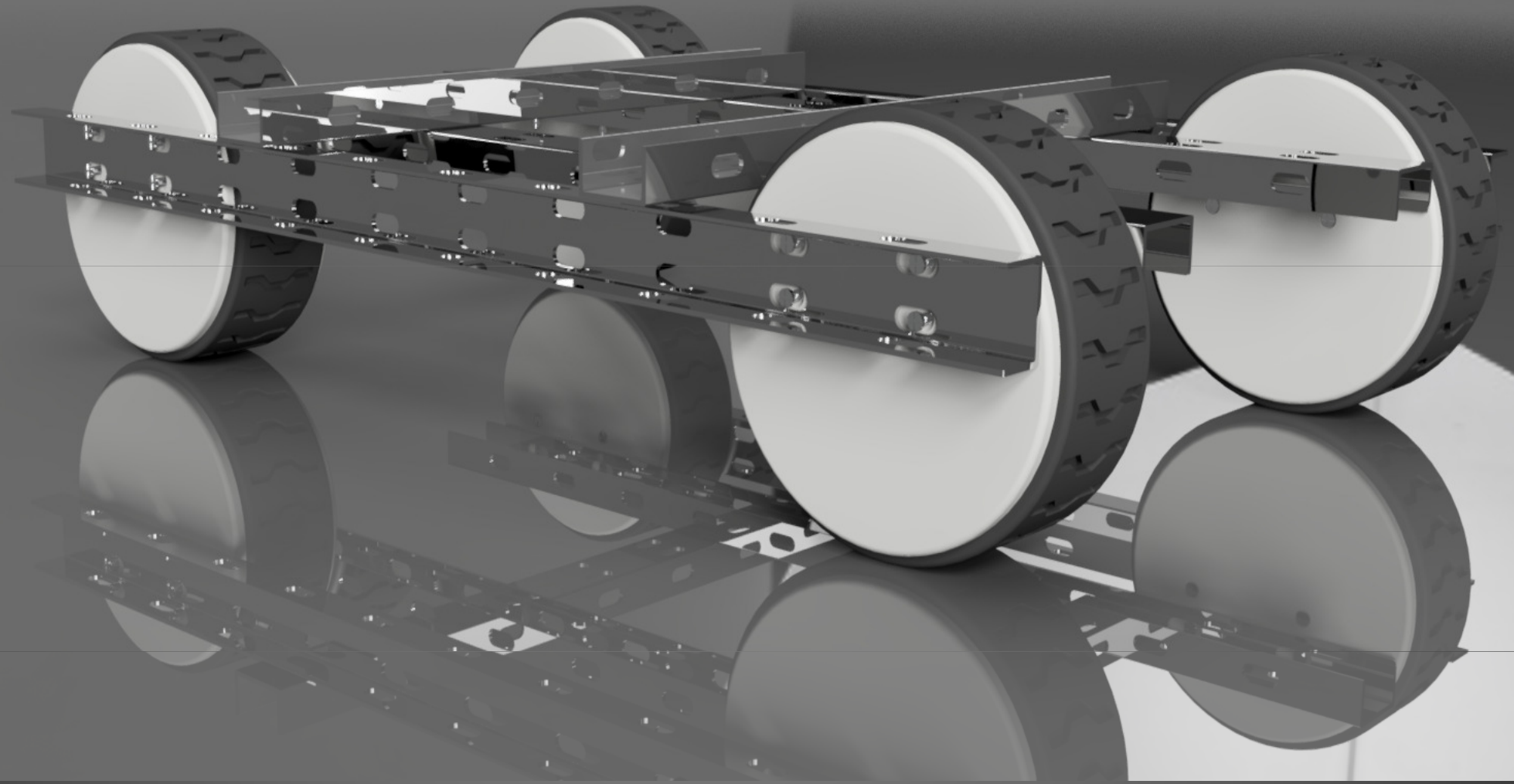
ALUMINIUM OR STEELFRAME STRUCTURE



LONGITUDINAL RACK
SUPPORT DESIGN
FOR WHEELS

INNER SUPPORT

OUTER SUPPORT
CONNECT WITH FLAT
HEAD BOLT



APPLICATION - 2

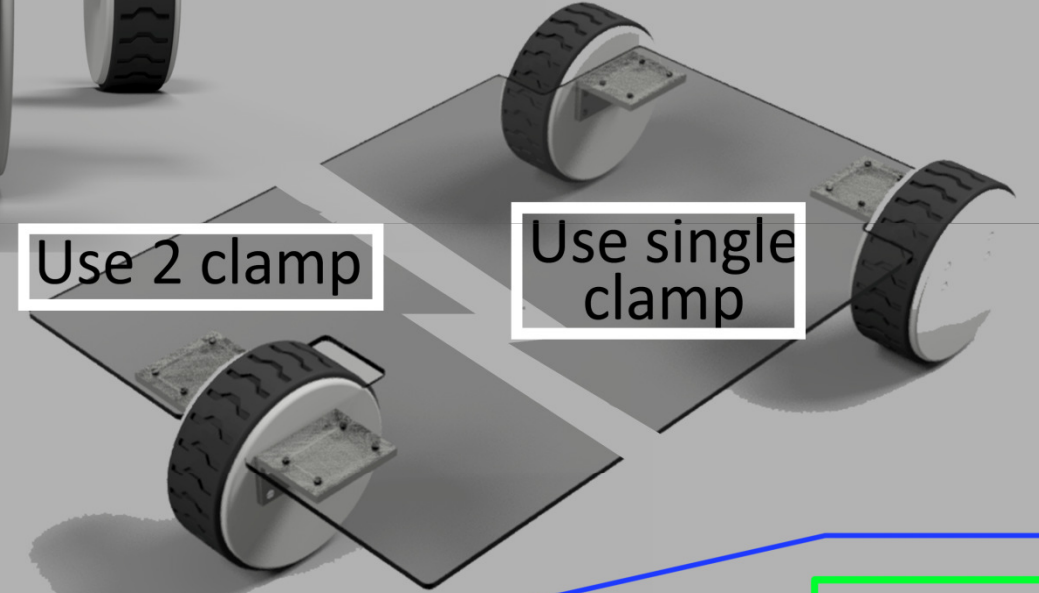
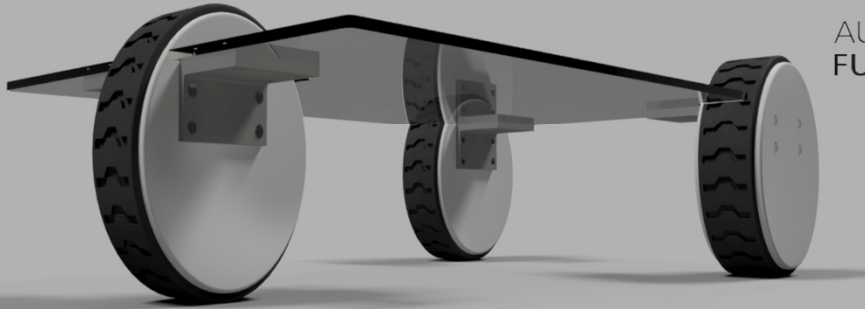
“USE SINGLE
OR DOUBLE
SIDE CLAMP
FOR ATTACH
WITH MAIN
FRAME”





AUTODESK FUSION 360™

AUTODESK FUSION 360 (2.0.4801)



Use 2 clamp

Use single clamp

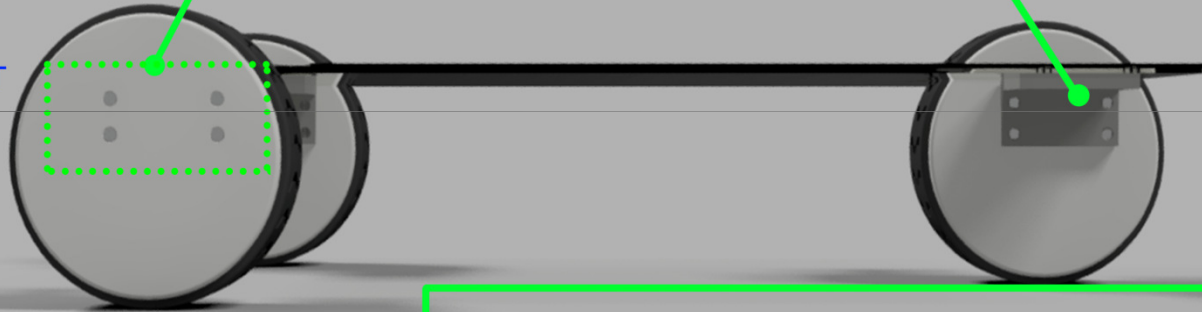
ADVANTAGES

- HIGHER GROUND CLEARANCE
- LOWER MANUFACTURING COST
- HIGHER GEAR RATIO FOR MORE TORQUE
- ACUURATE POSITIONING THROUGH WARM GEARS
- HIGHER FLEXIBILITY IN ASSEMBLY
- NO SHAFT AND OTHER TOLERATED COMPONENT

FOUR SCREW SUPPORT FOR HIGHRE ACCURATE ASSEMBLY AND ABSORB VIBRATION

3D PRINTED OR METAL CLAMP FOR WHEEL

NO SHAFT OR BEARING FOR ALIGNING



DUE TO CLAMP ALL WEIGHT, FORCE AND VIBRATION IS DEVIDE IN ALL WHEELS

HIGHER GROUND CLEARANCE

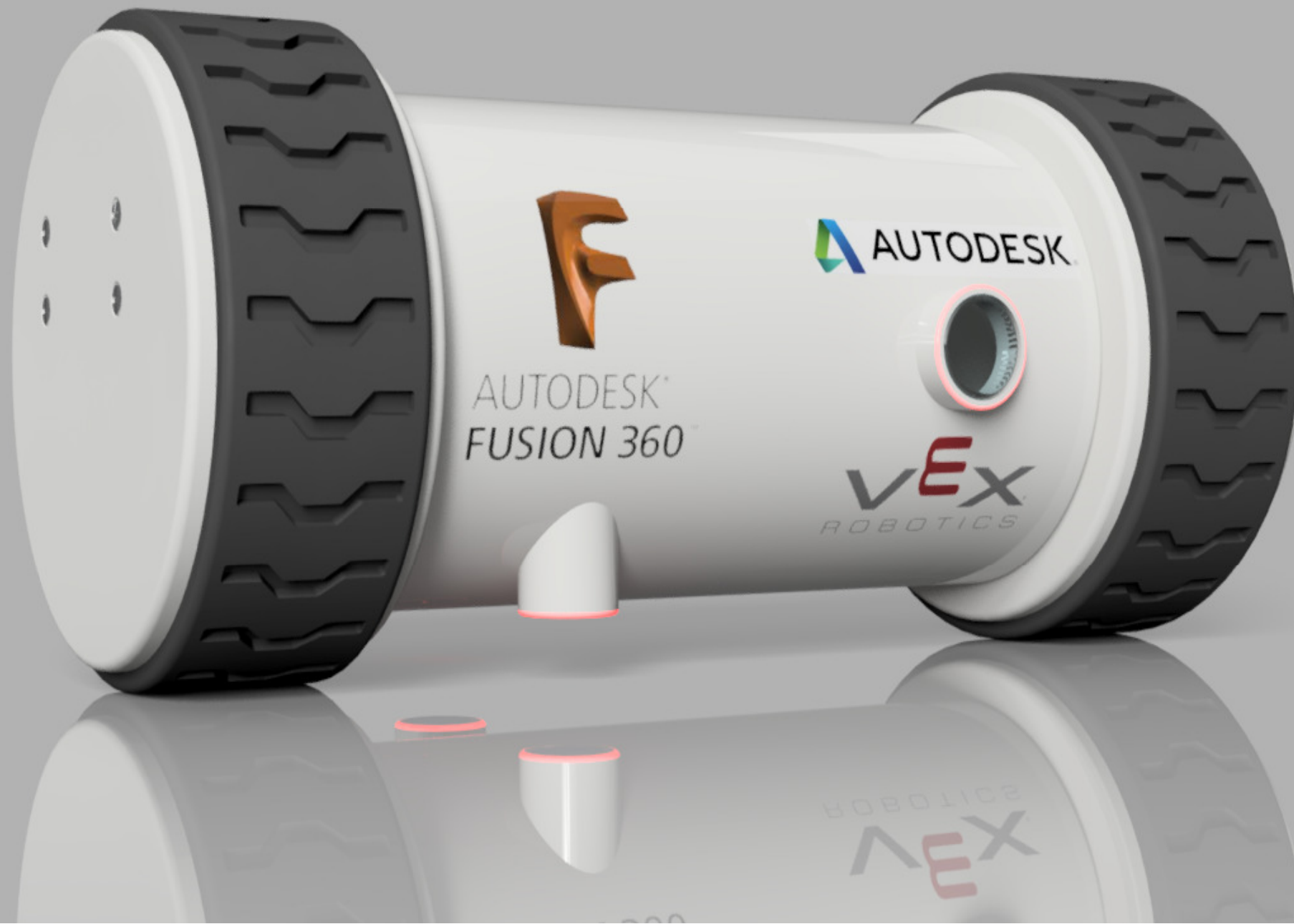
NO ACCURATE ANGULER ALLIGNMENT DUE TO SHAFT TOLERANCES

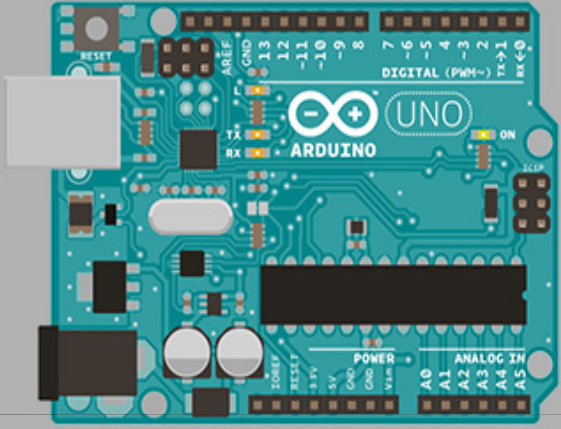
LOWER GROUND CLEARANCE DUE TO CENTRE ALIGNMENT OF WHEEL

PRESENT WHEEL



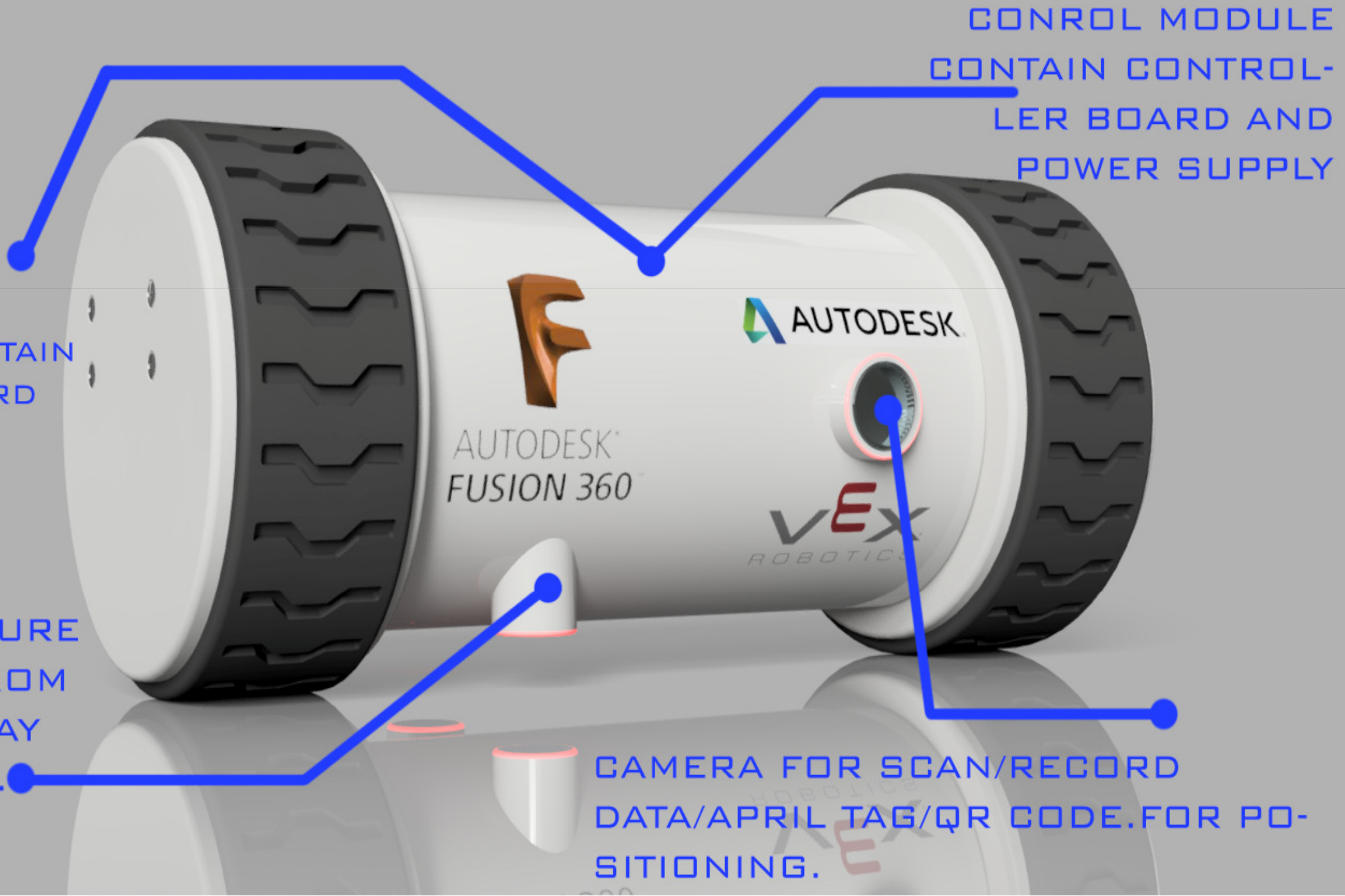
APPLICATION - 3





THIS MODULE CONTAIN
CONTROLLER BOARD
,BATTERY,OTHER
COMMUNICATION
COMPONENT.

SENSOR MEASURE
THE HEIGHT FROM
FLOOR AND STAY
STABLE ROBOT.

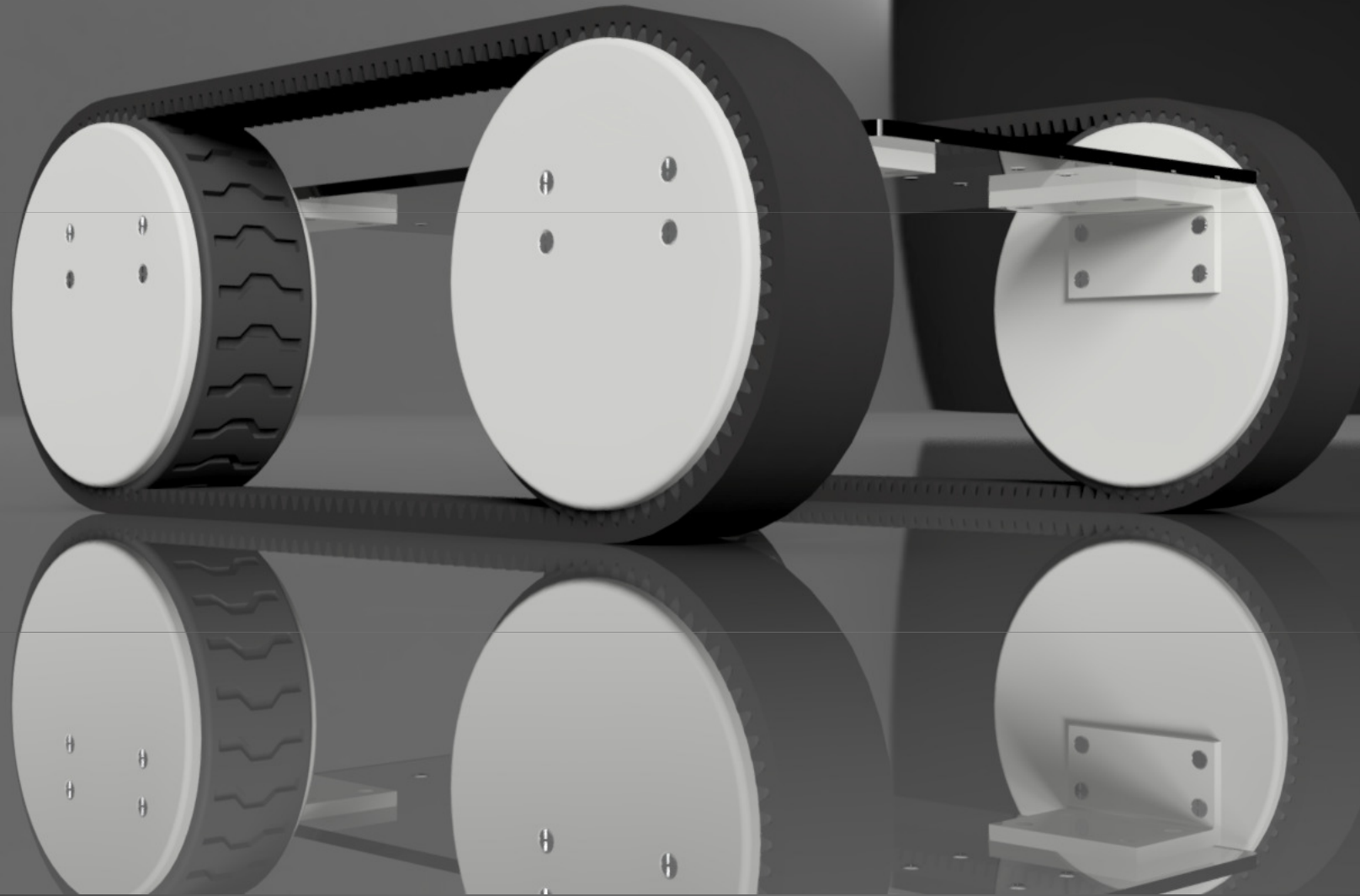


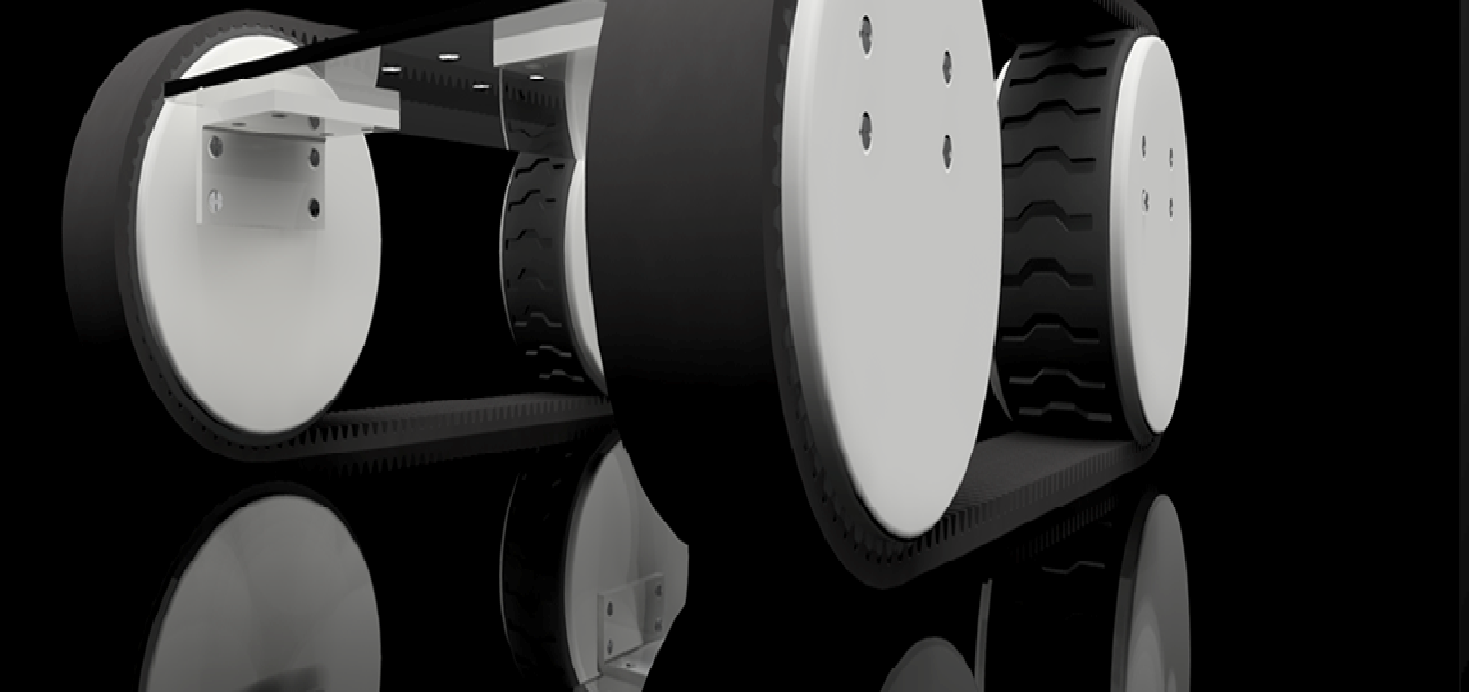
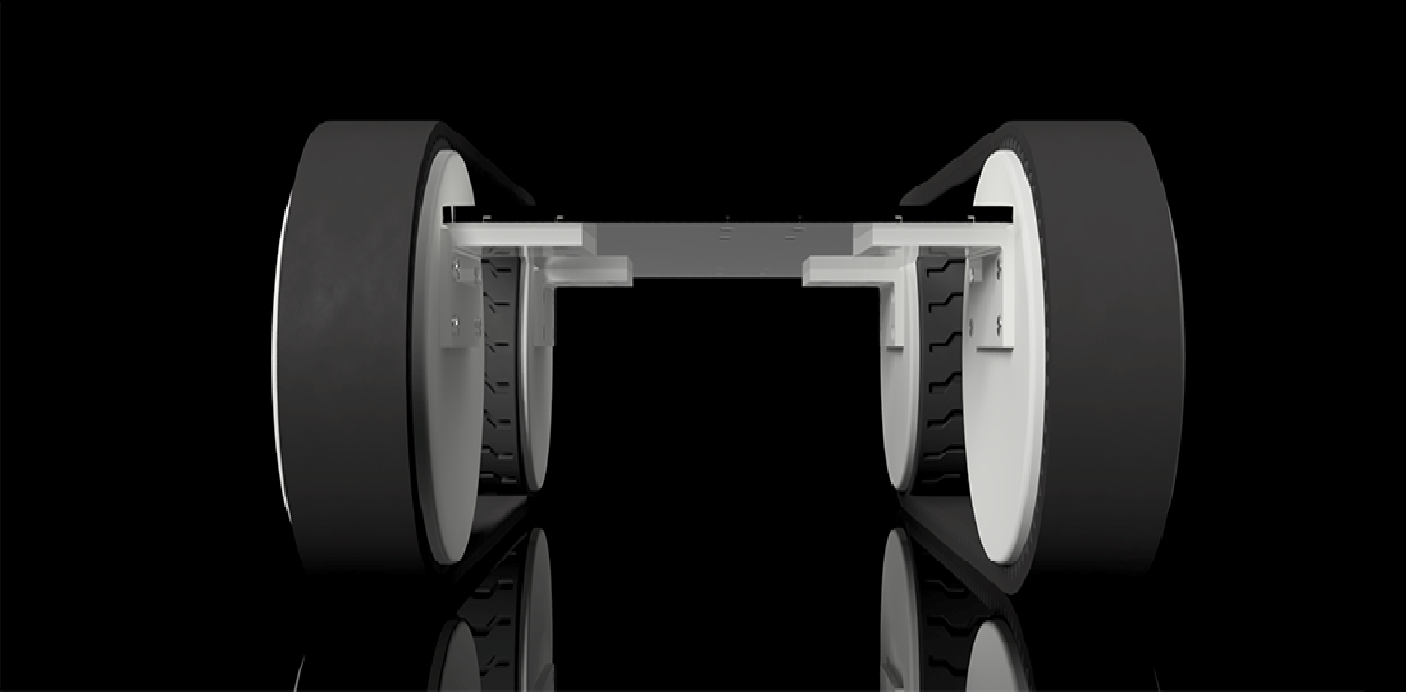
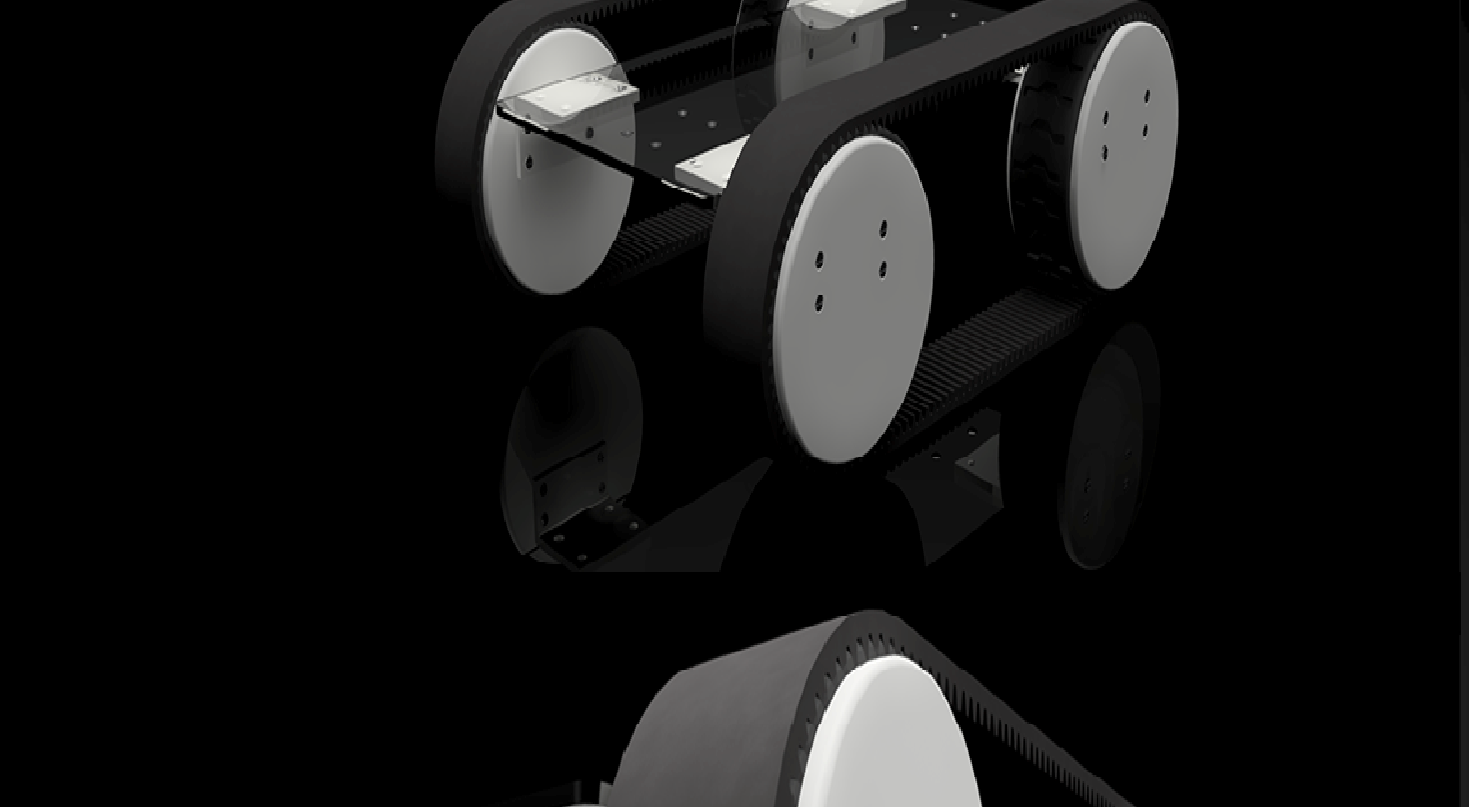
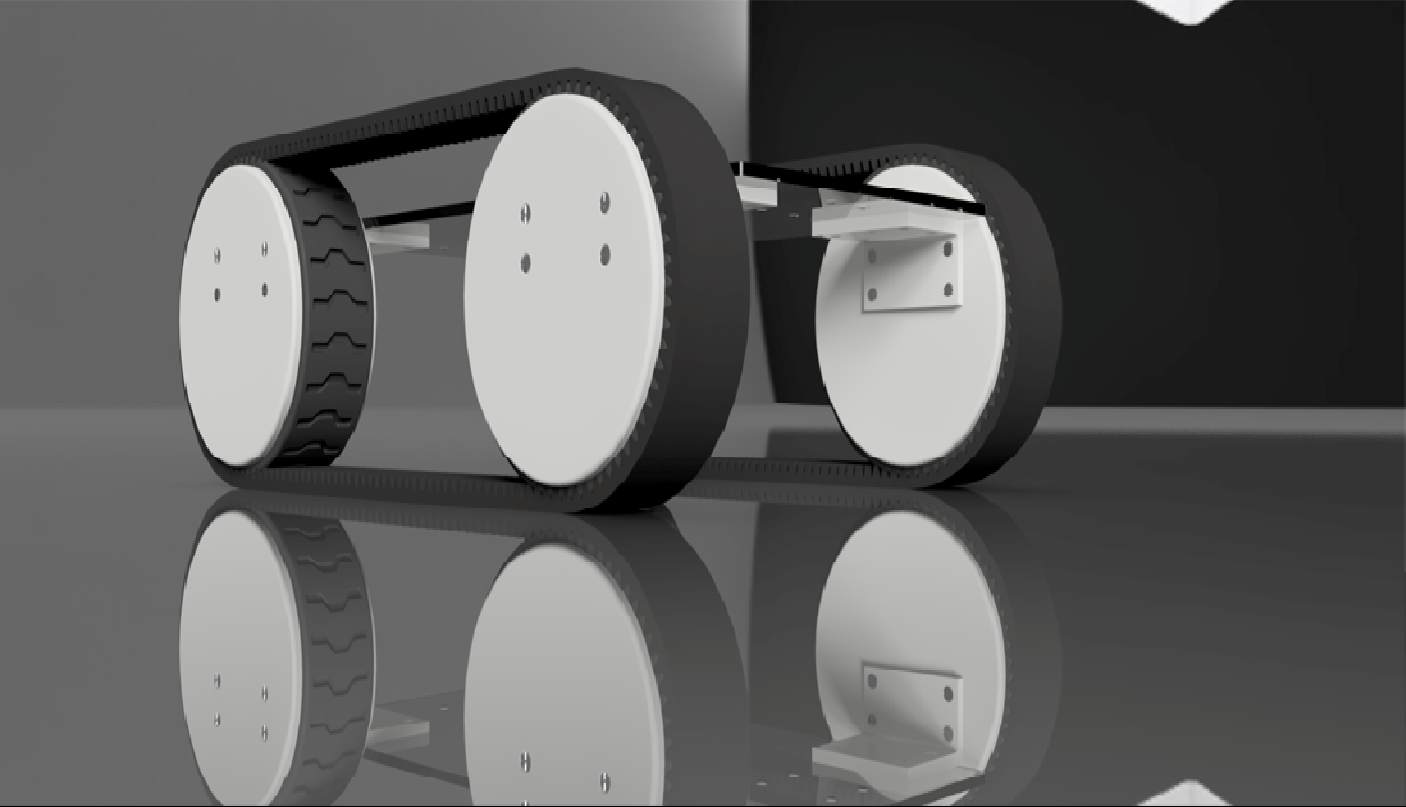
CONTROL MODULE
CONTAIN CONTROL-
LER BOARD AND
POWER SUPPLY

CAMERA FOR SCAN/RECORD
DATA/APRIL TAG/QR CODE.FOR PO-
SITIONING.

APPLICATION - 4

“ USE
TRACK
FOR MAX
FRICTION
WITH
SURFACE
“





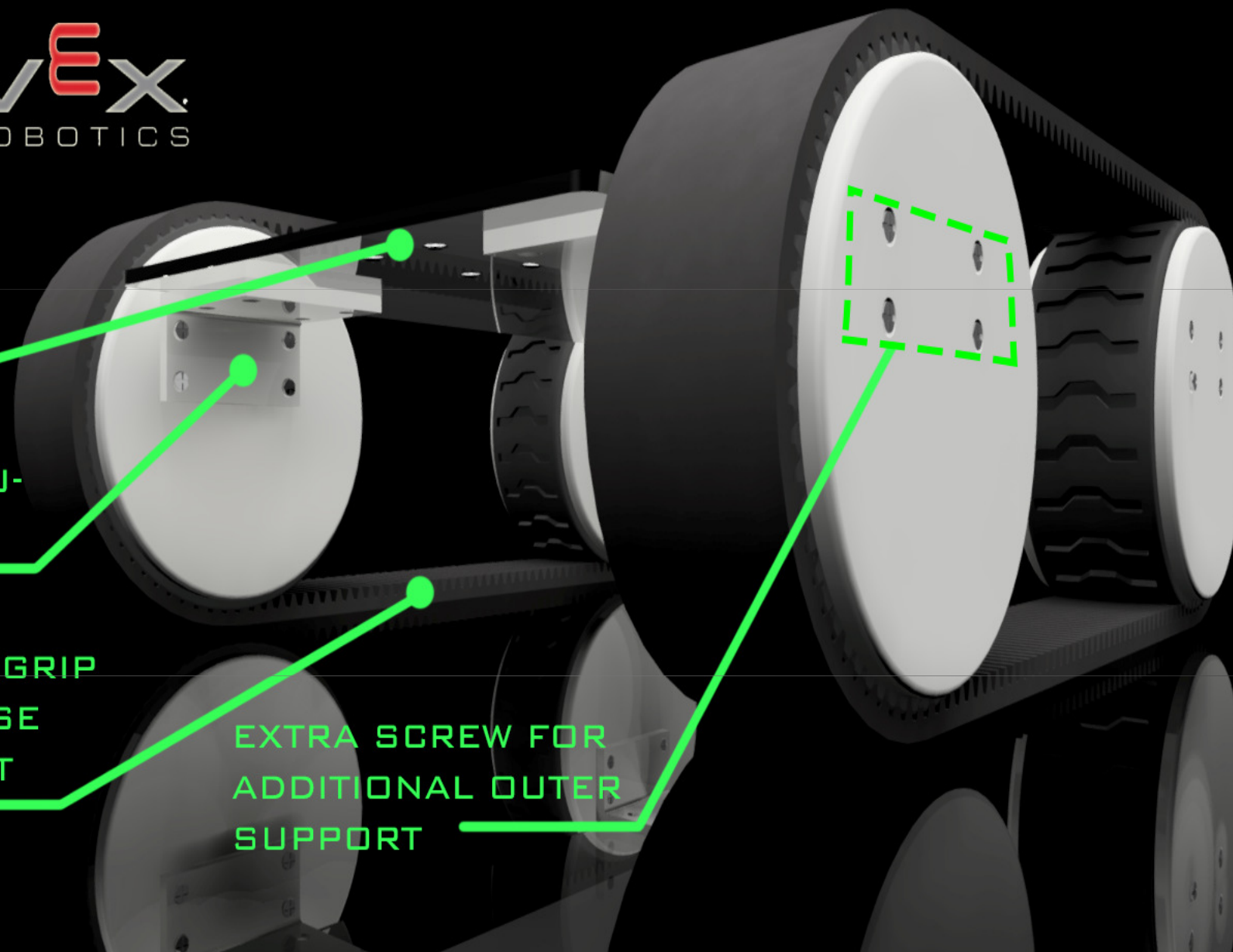


ACRYLIC/ABS
PLATE FOR BASE

CLAMP FOR ACCU-
RATE ALIGNMENT

TRACK FOR BETTER GRIP
ON SLOP & INCREASE
STABILITY OF ROBOT

EXTRA SCREW FOR
ADDITIONAL OUTER
SUPPORT



SPECIAL THANKS FOR SUPPORT

DAX PATEL FOR 3D DESIGN IN HIS
WORKSATION.

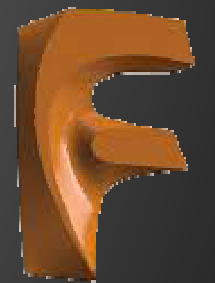
THANKING FOR THIS CHALLENGE



VEX
ROBOTICS



AUTODESK



AUTODESK
FUSION 360