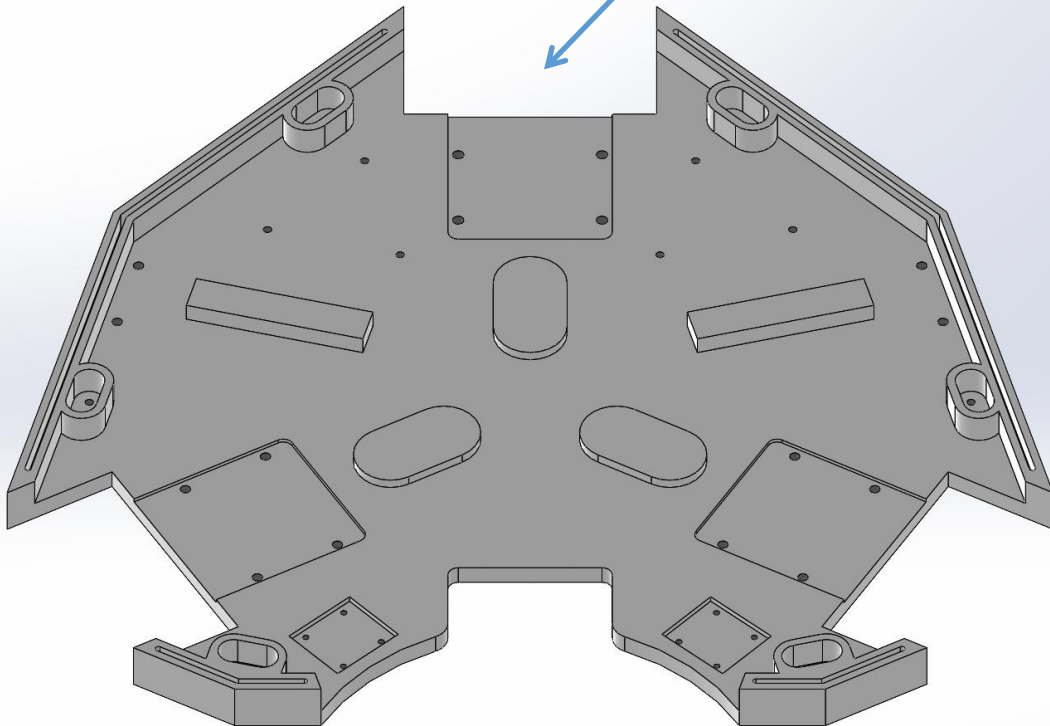




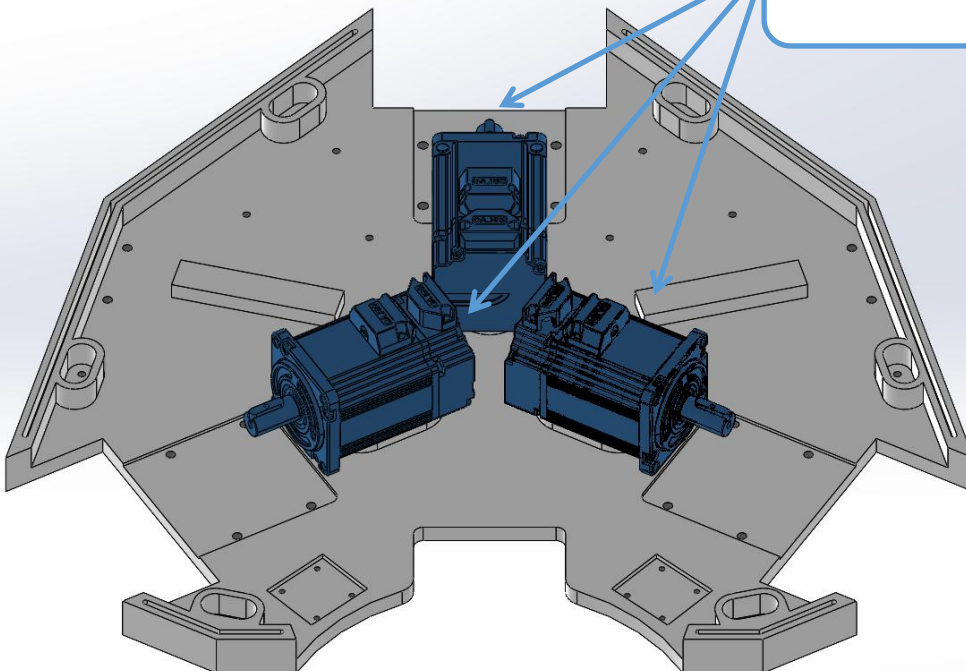
# BigHeroX

Player Mechanical  
structure description

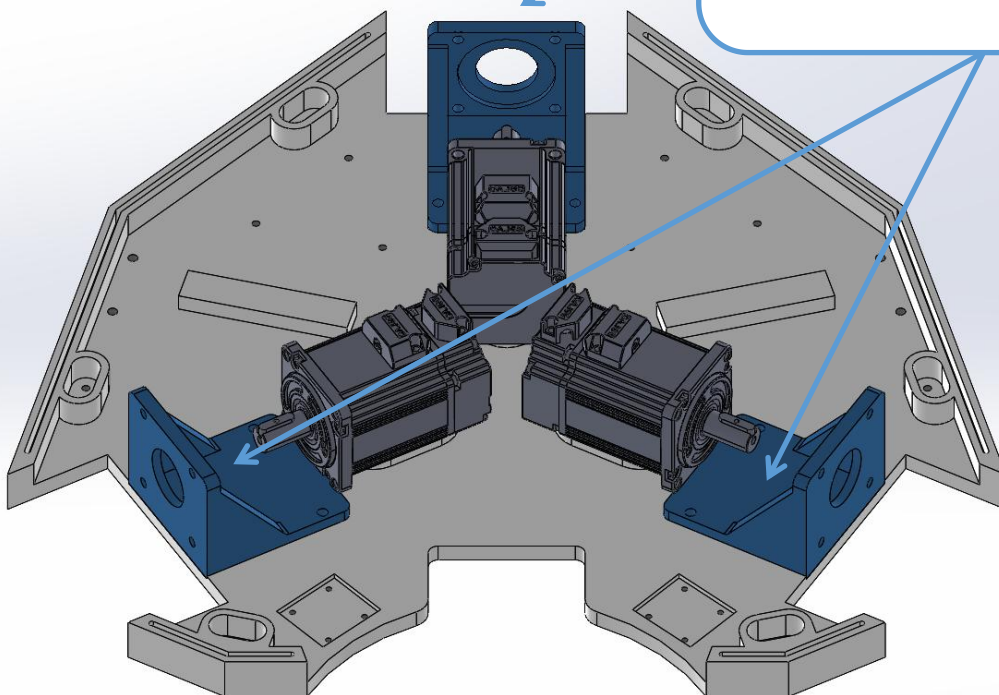
**10mm thick aluminum  
chassis**



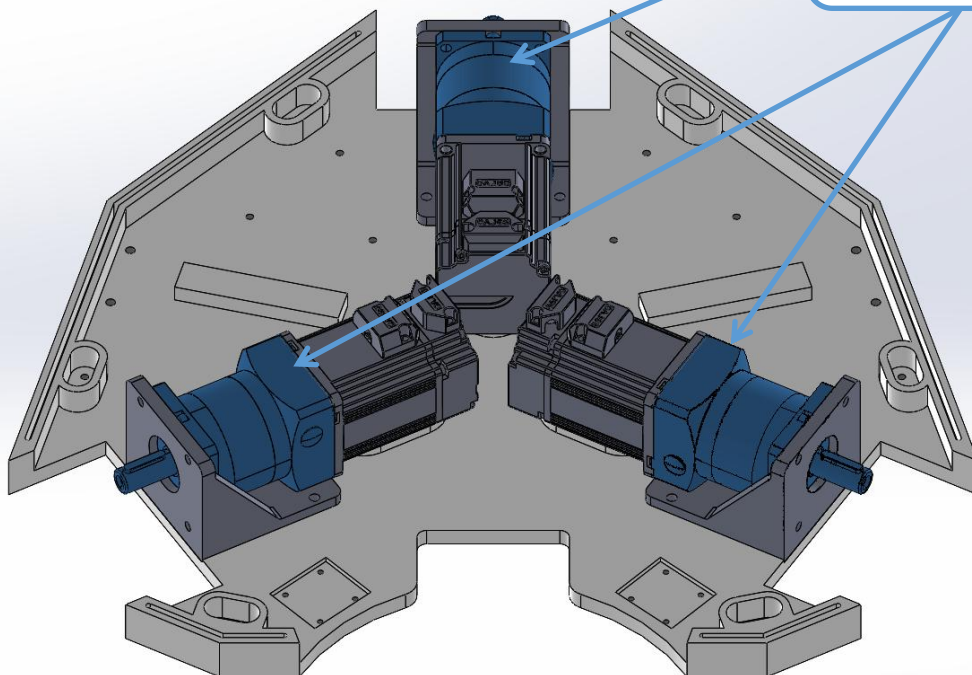
**Electric motor**



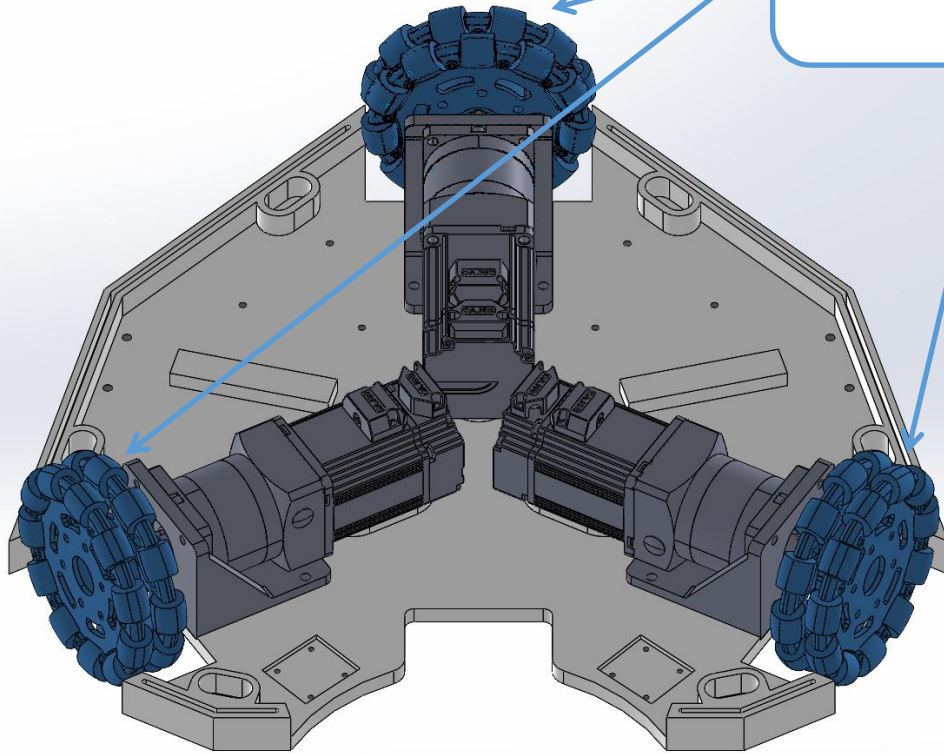
**The connection structure  
between the  
Reducer and the chassis**



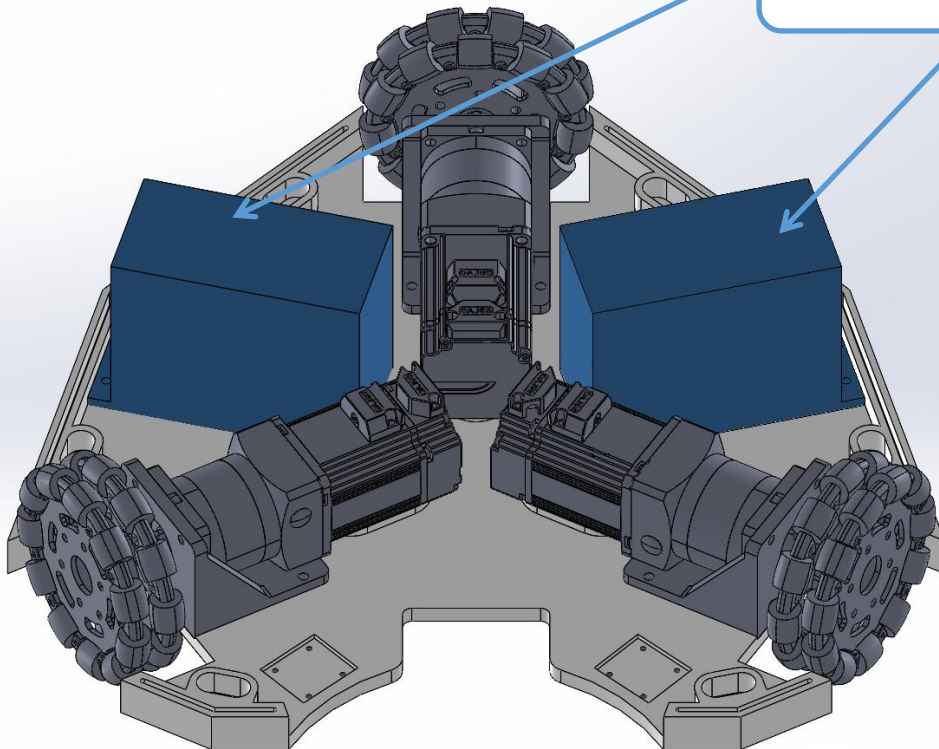
**Reducer**



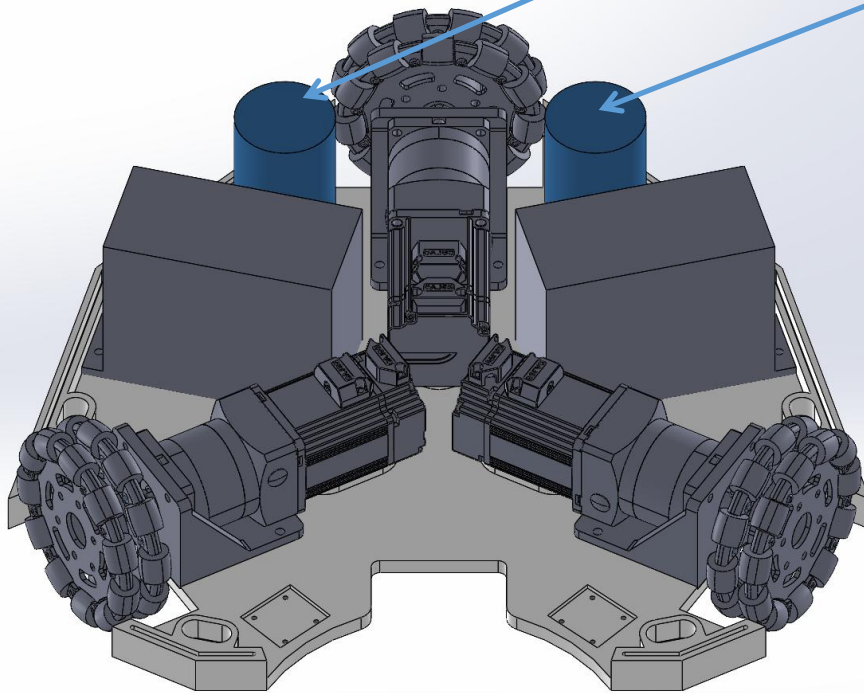
**127mm  
omnidirectional wheel**



**60V power battery**

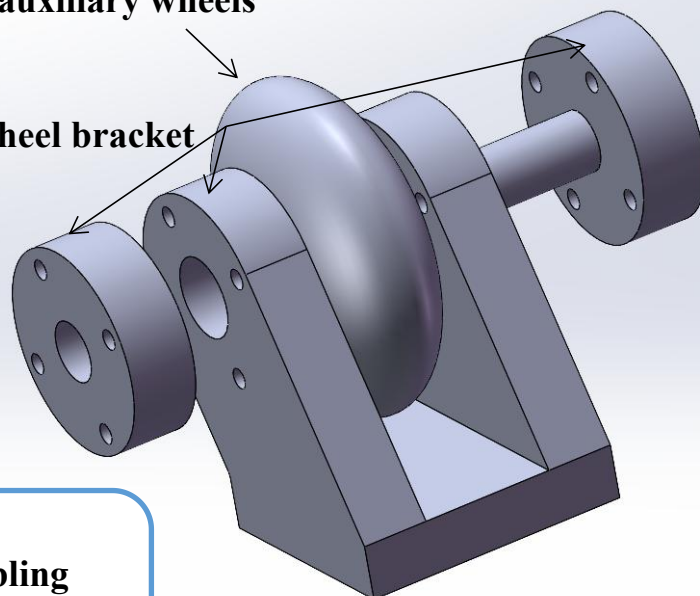


**ultracapacitor**



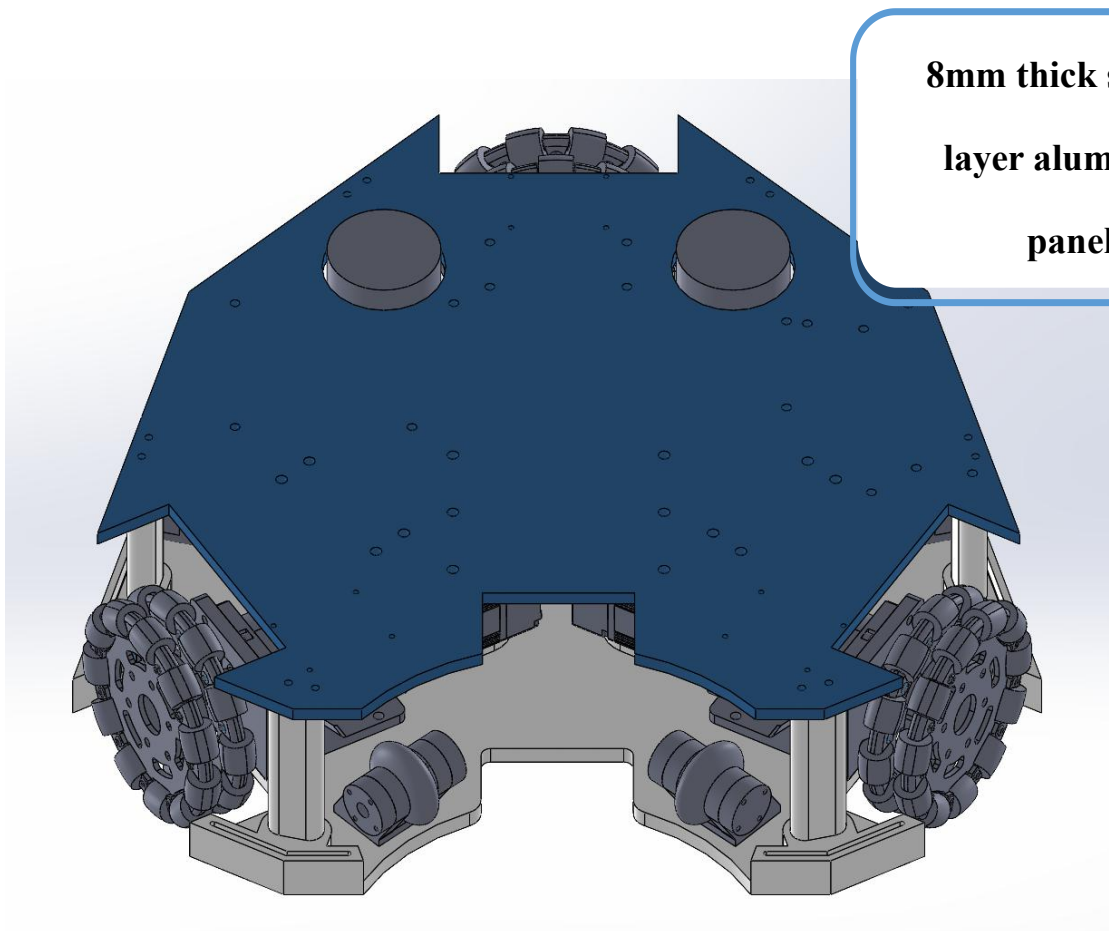
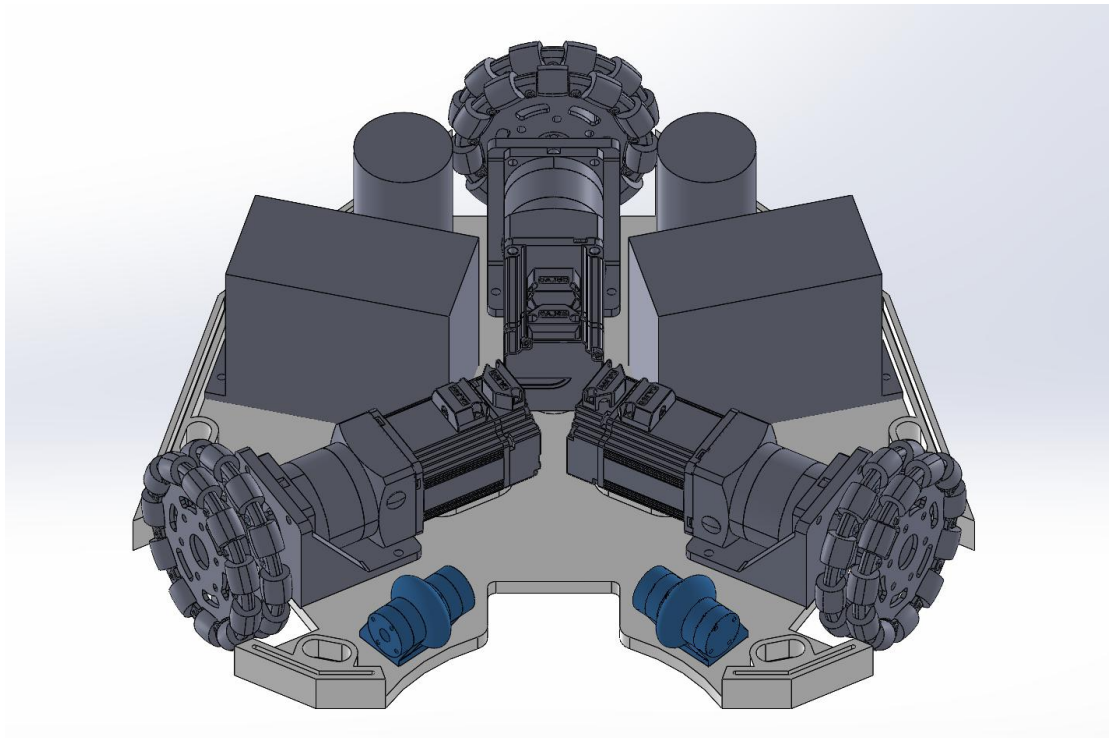
**auxiliary wheels**

**auxiliary wheel bracket**



**auxiliary dribbling  
structure**

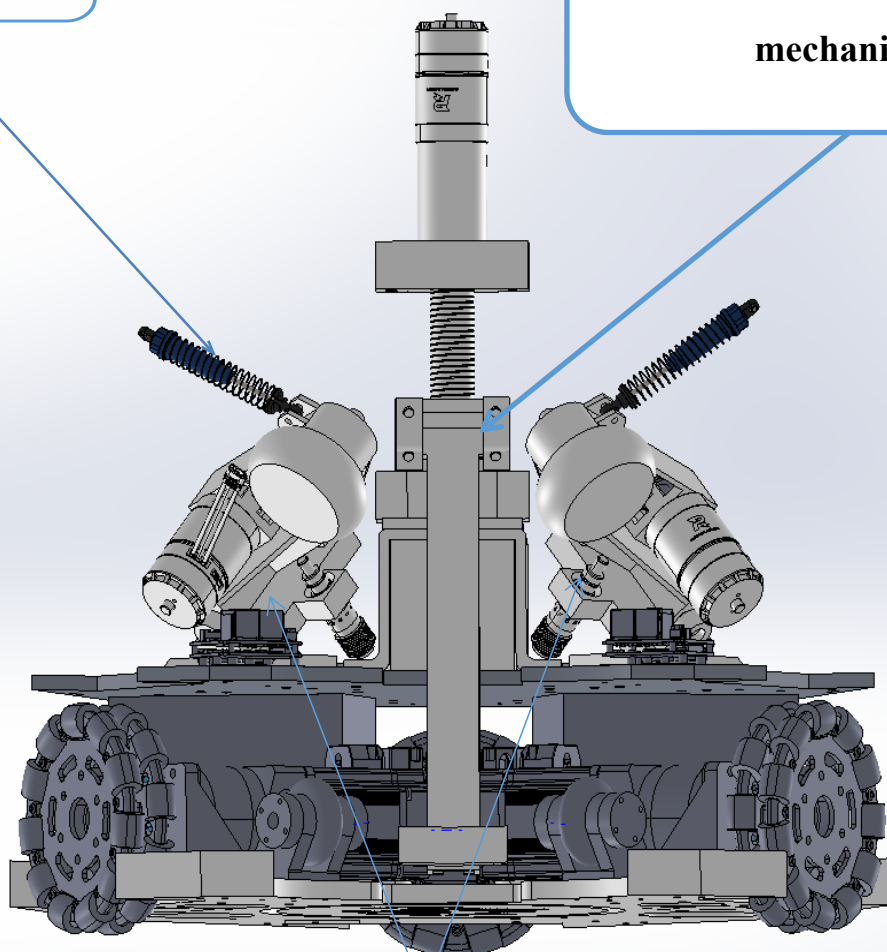




**8mm thick second  
layer aluminum  
panel**

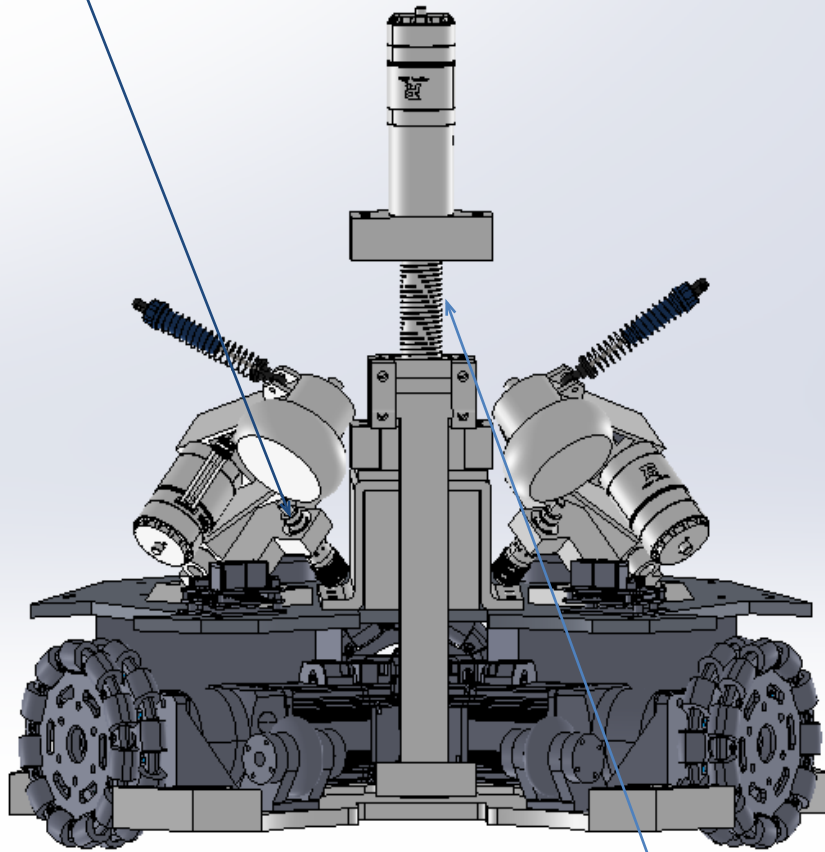
**shockproof  
suspension**

**height-adjustable hitting  
mechanism**



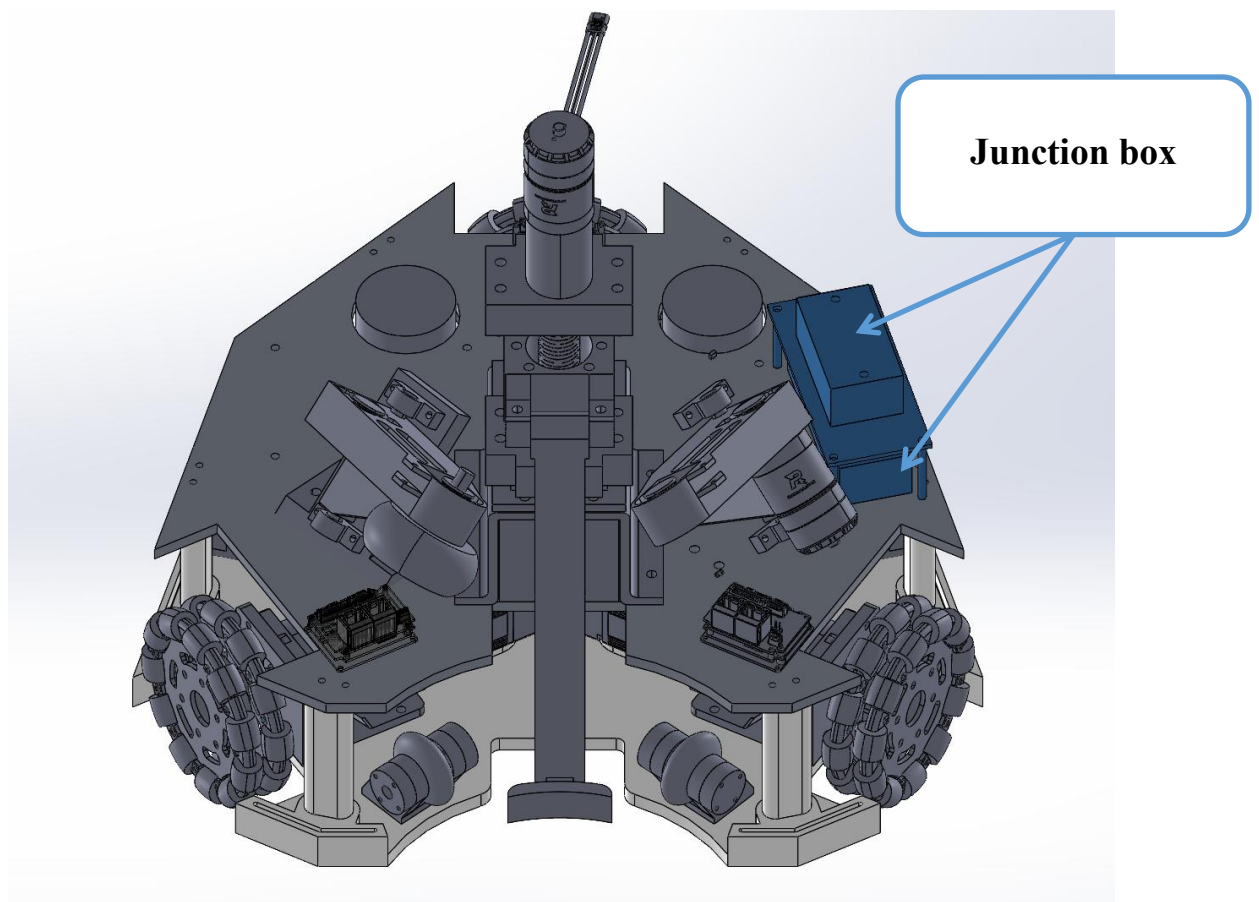
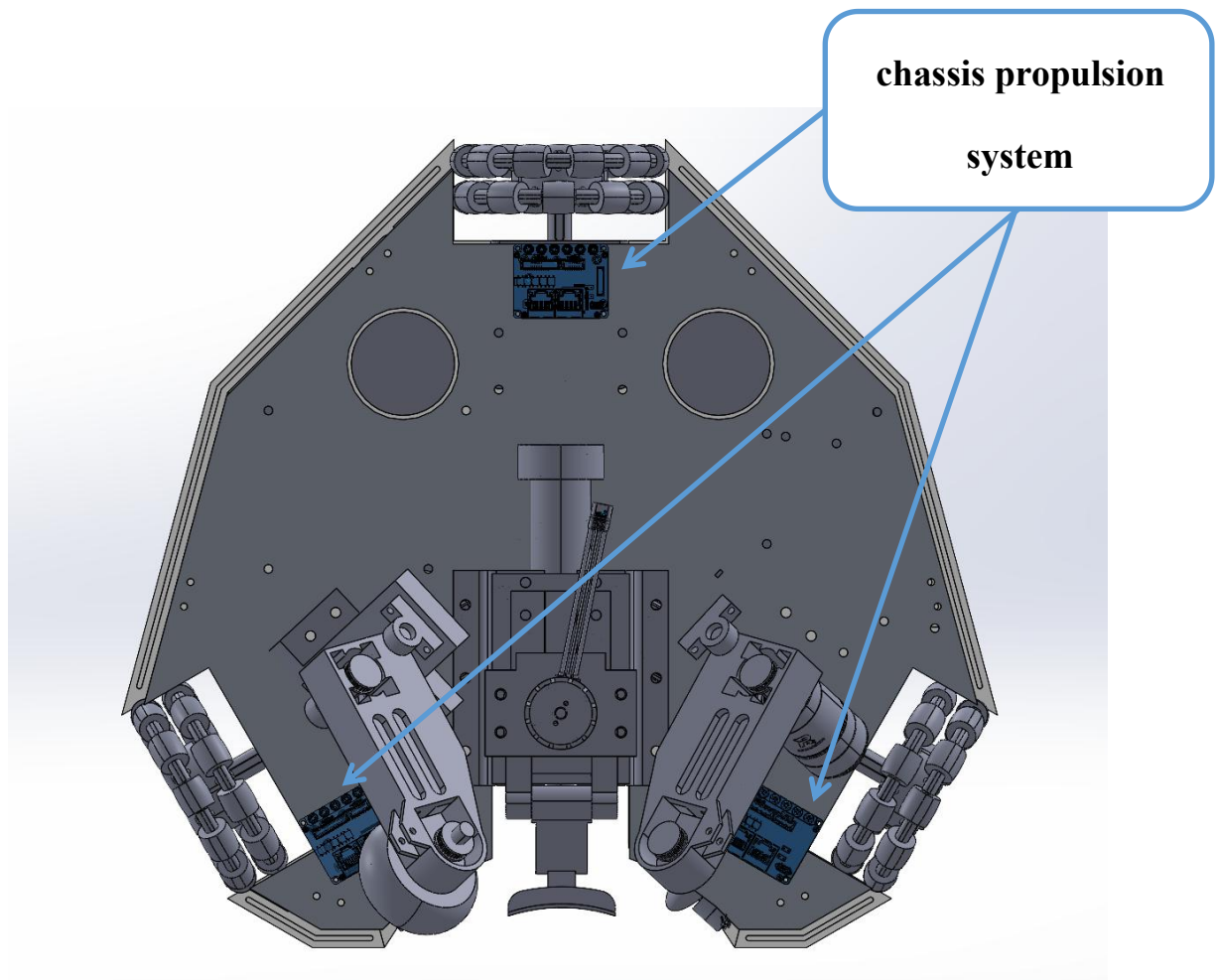
**ball picking-up mechanism**

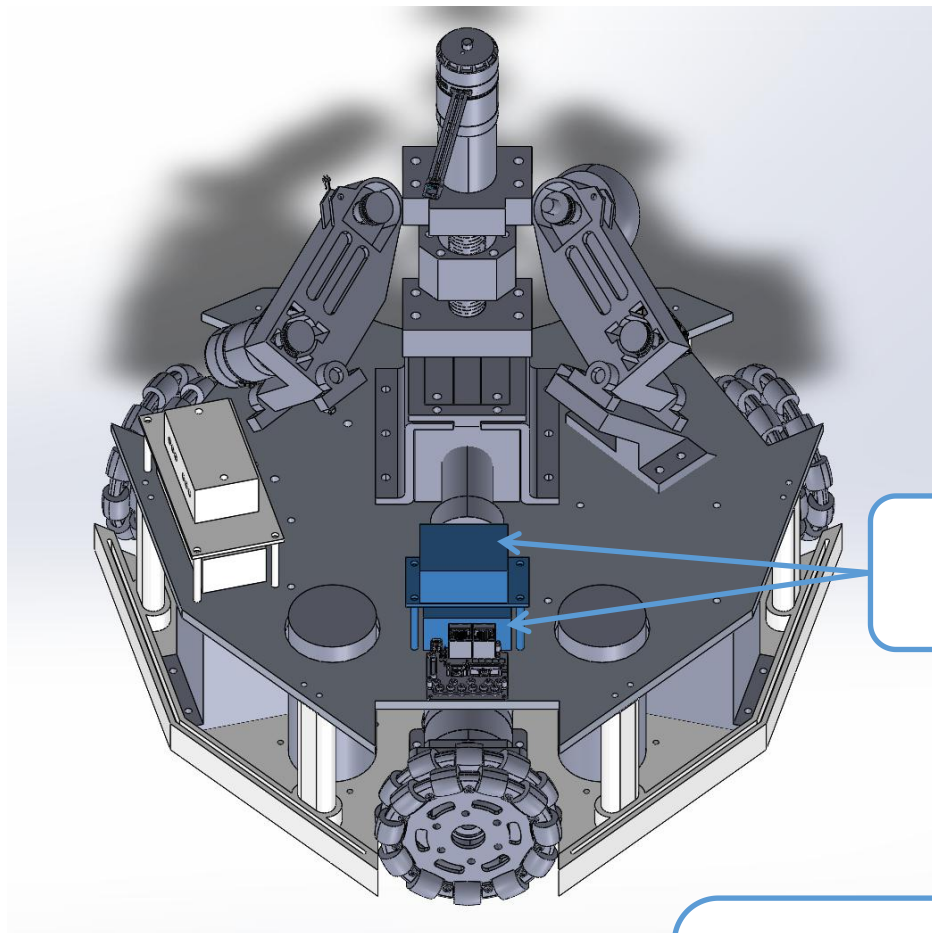
micrometer



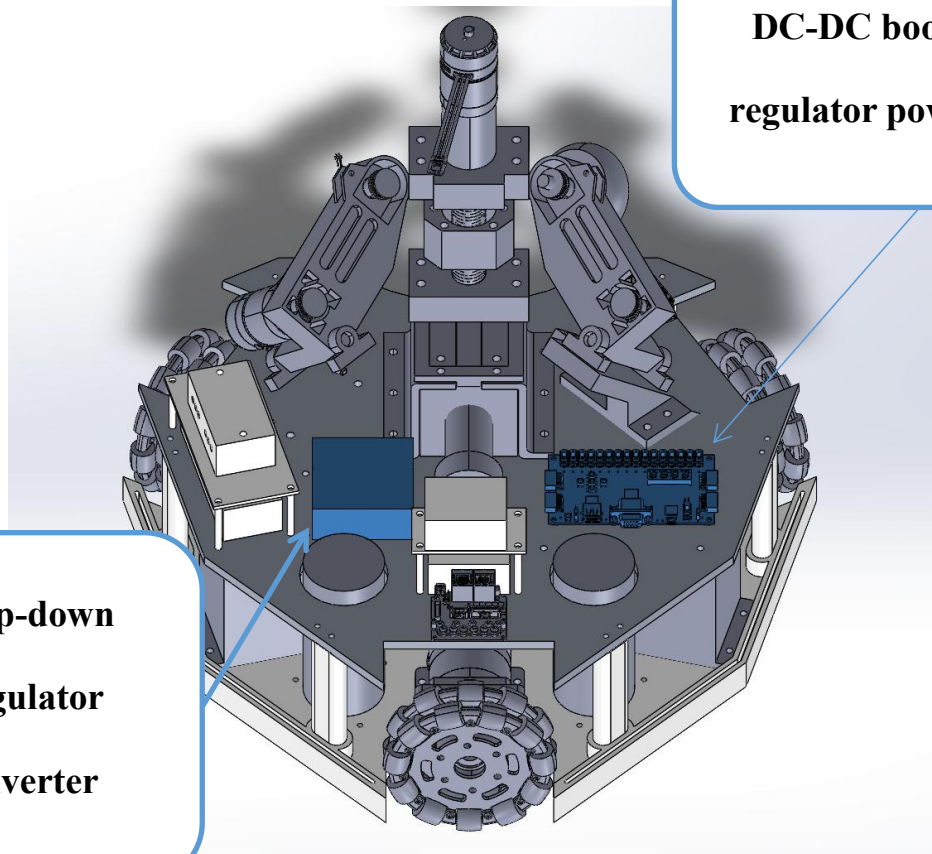
Lead screw







**relay**

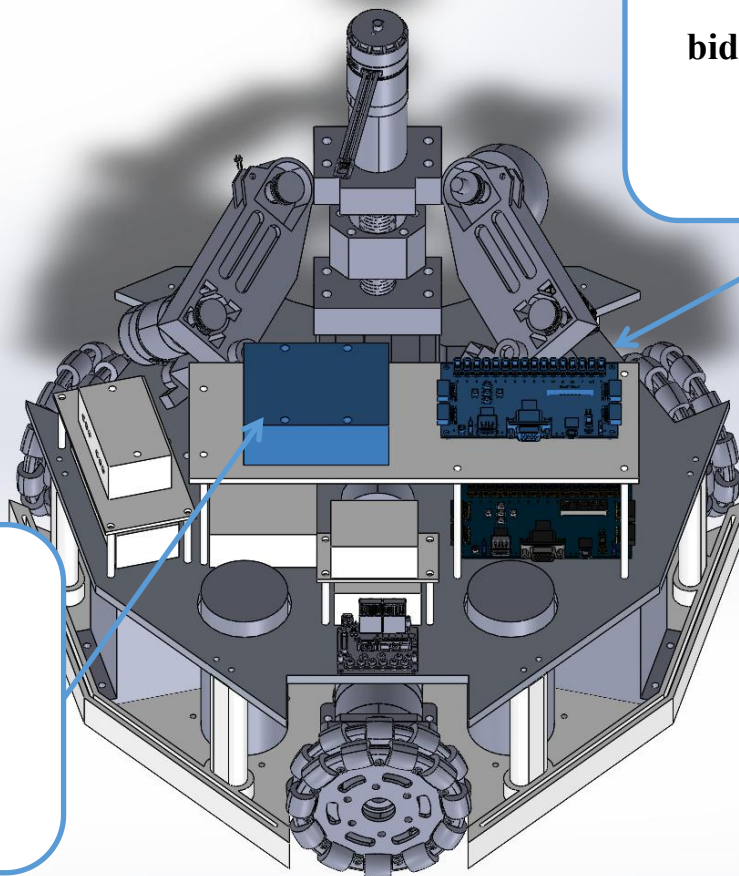


**DC-DC boost voltage  
regulator power module**

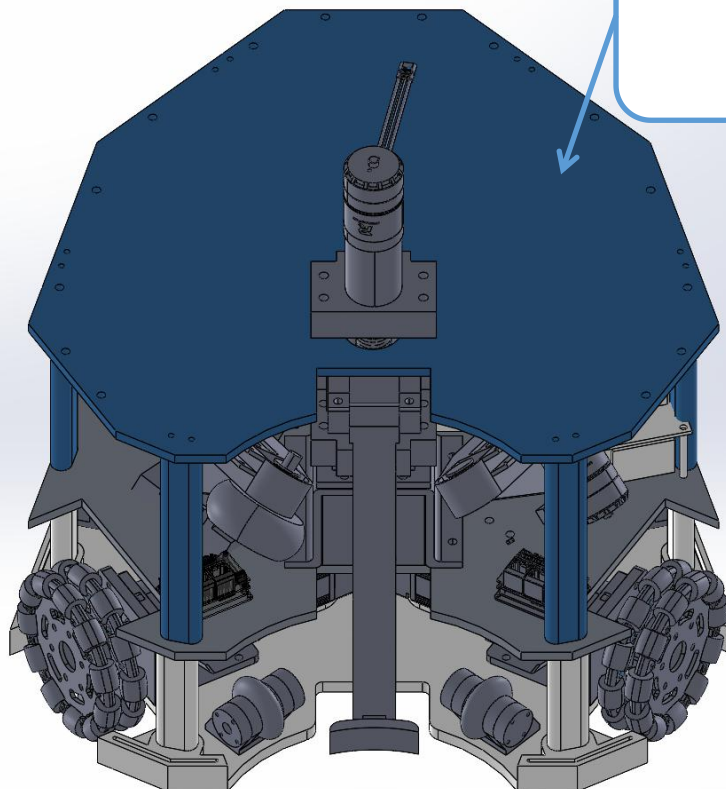
**DC-DC step-down  
voltage regulator  
power converter**

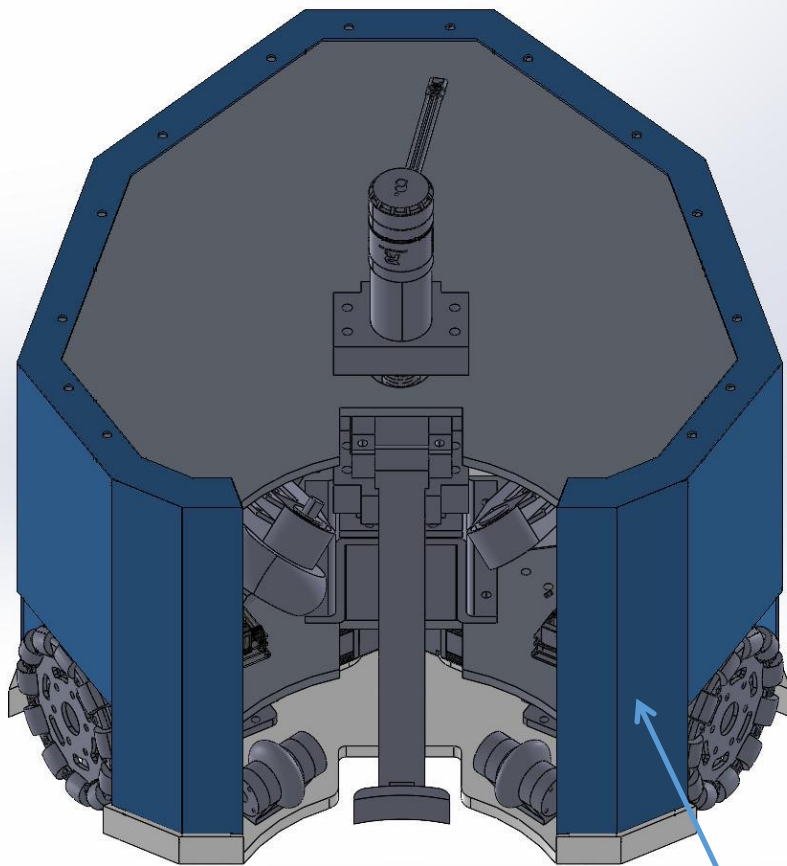
**high-power  
bidirectional DC-DC  
power supply**

**DC-DC step-down  
voltage regulator  
power converter**



**8mm thick aluminum  
top plate**





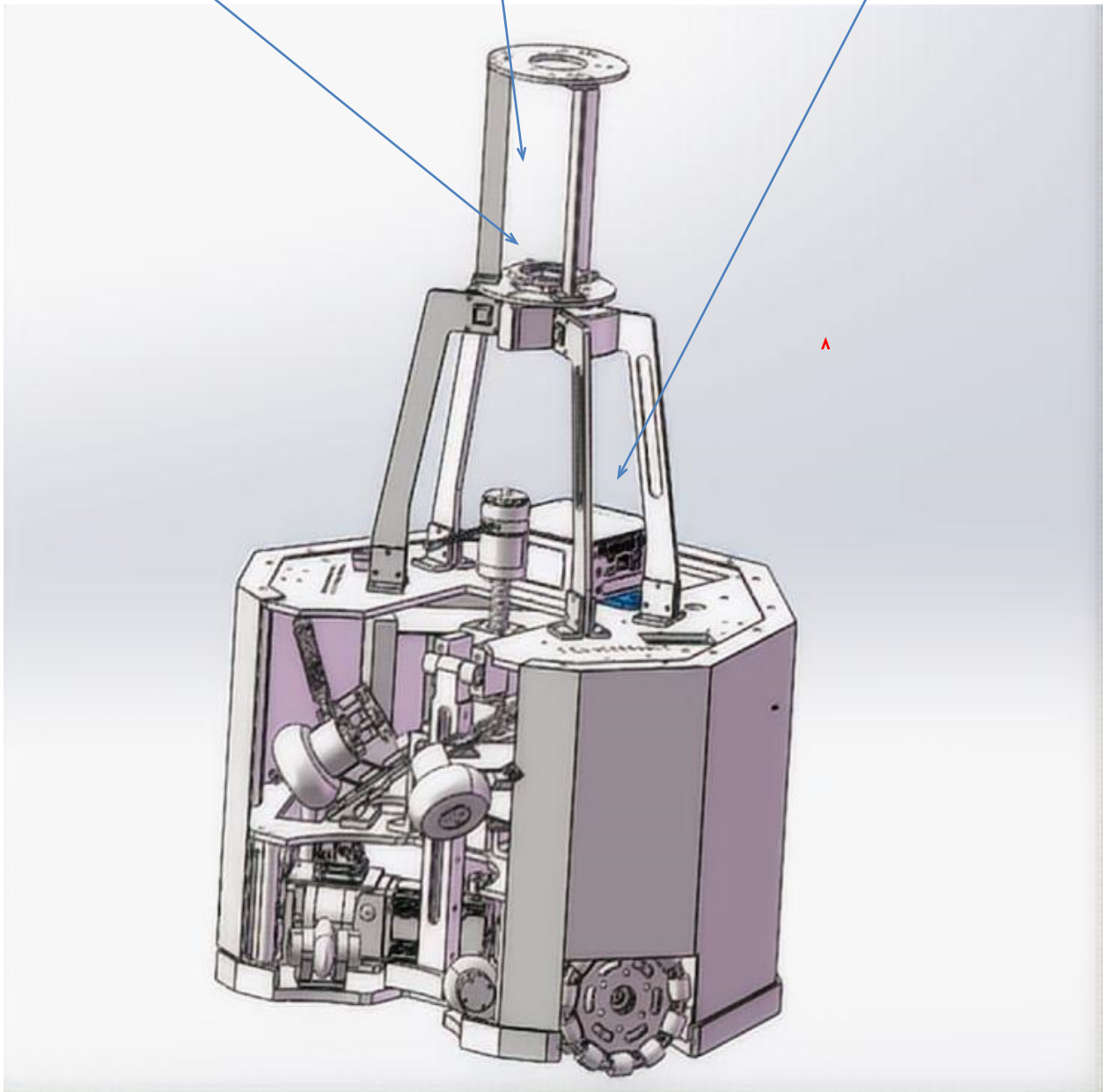
**2mm thick aluminum  
frame**



**Total reflector**

**Industrial Camera**

**Microcomputers**



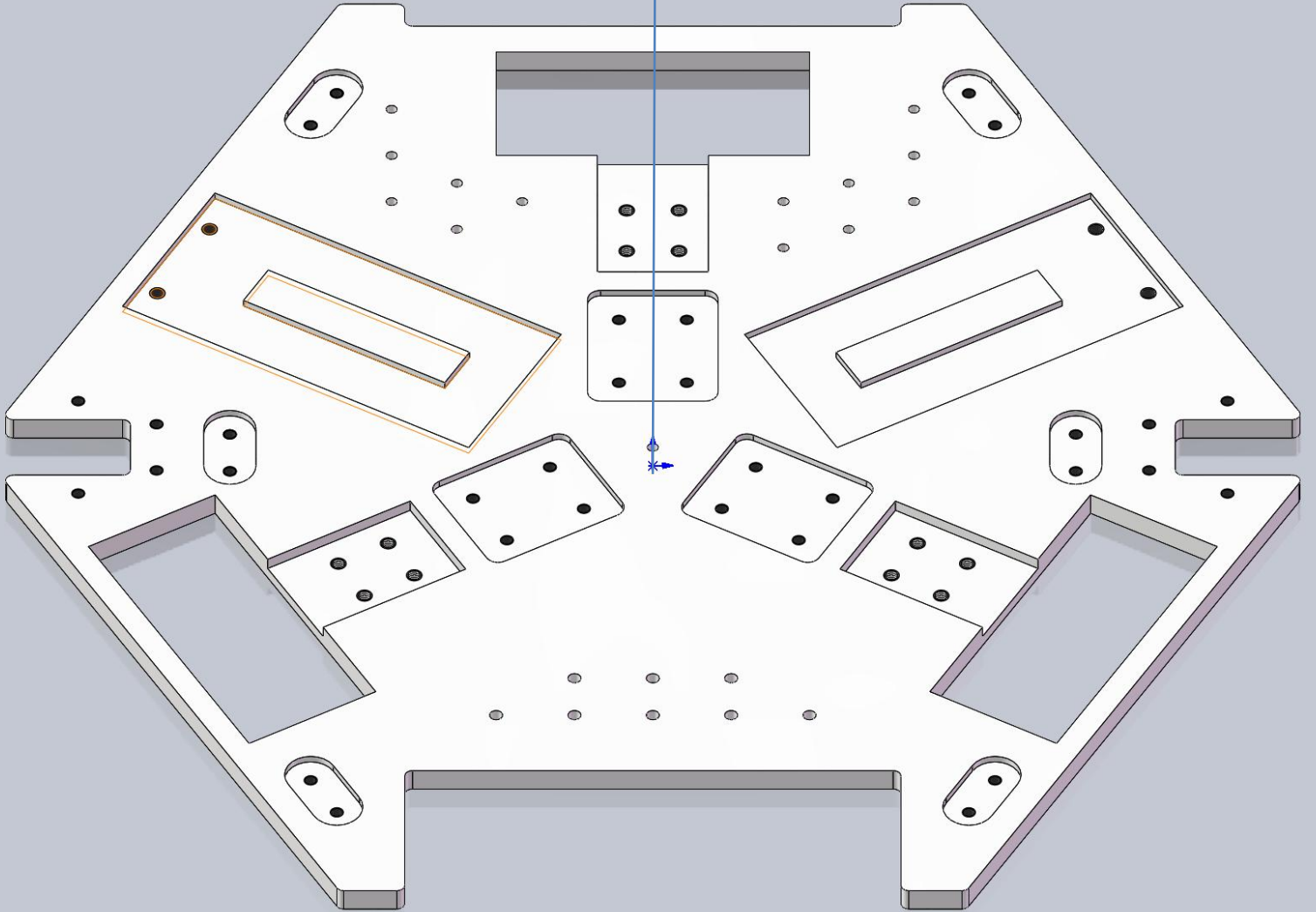




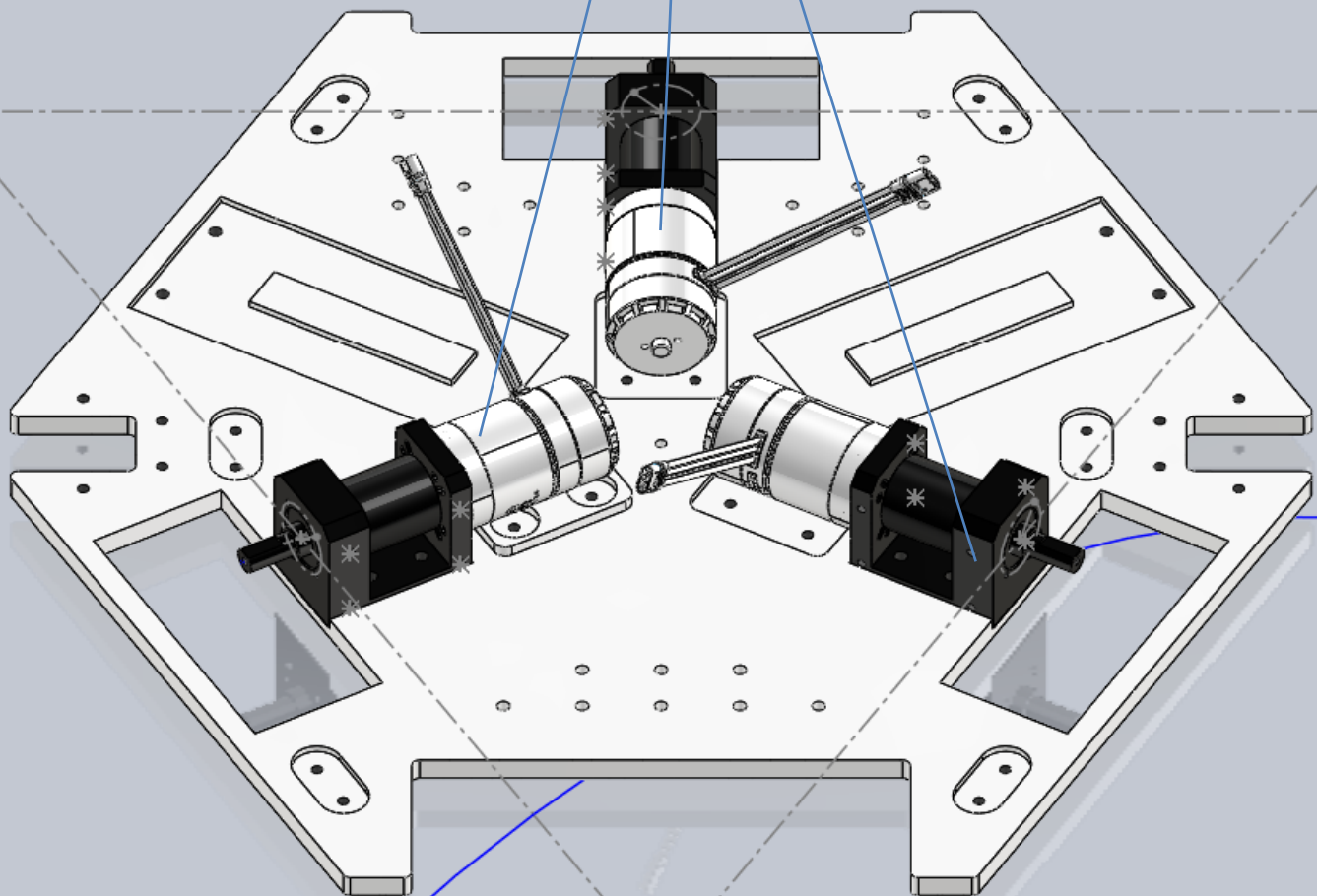
# BigHeroX

Goalkeeper Mechanical  
structure description

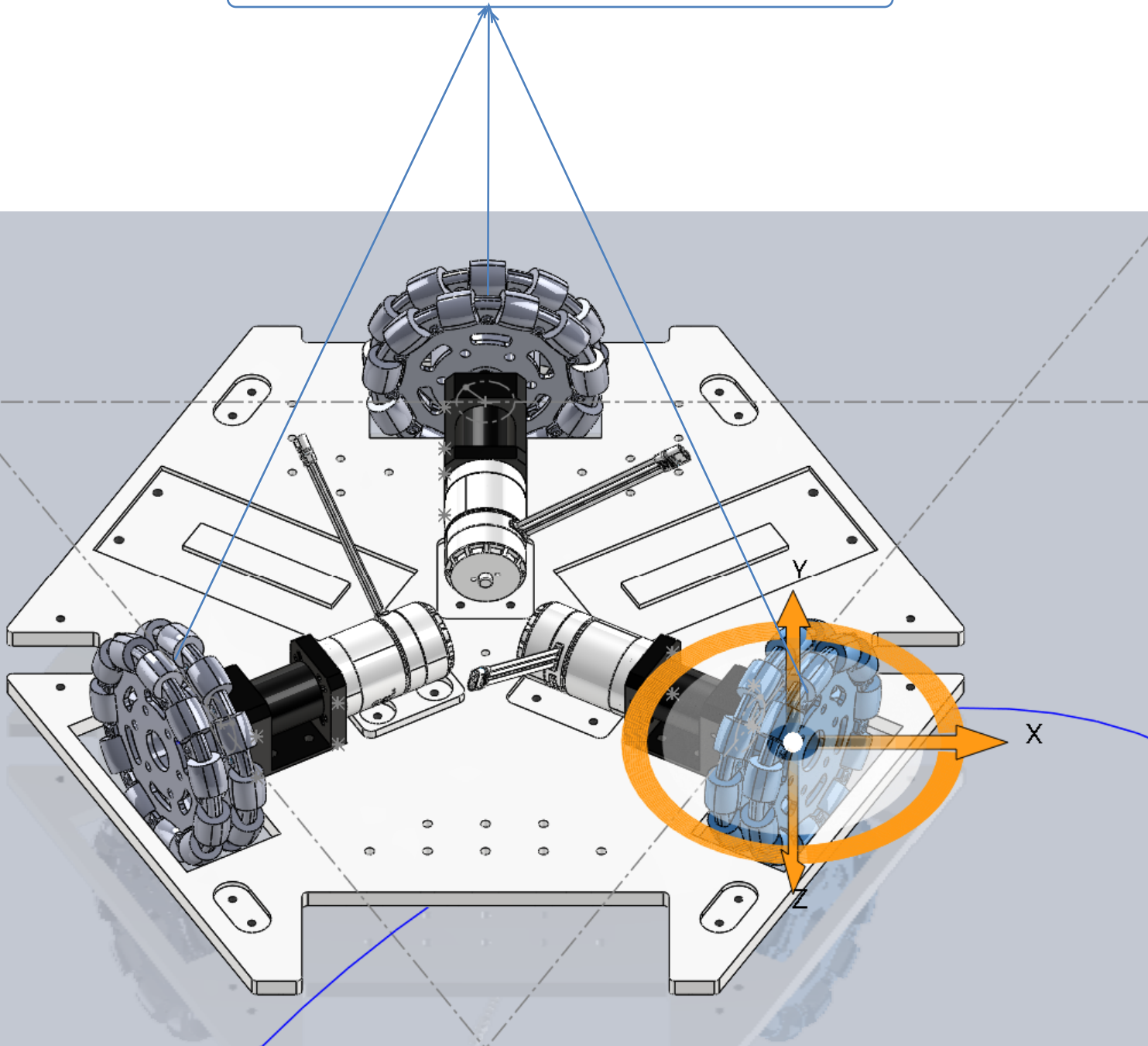
10mm thick carbon fiber chasis



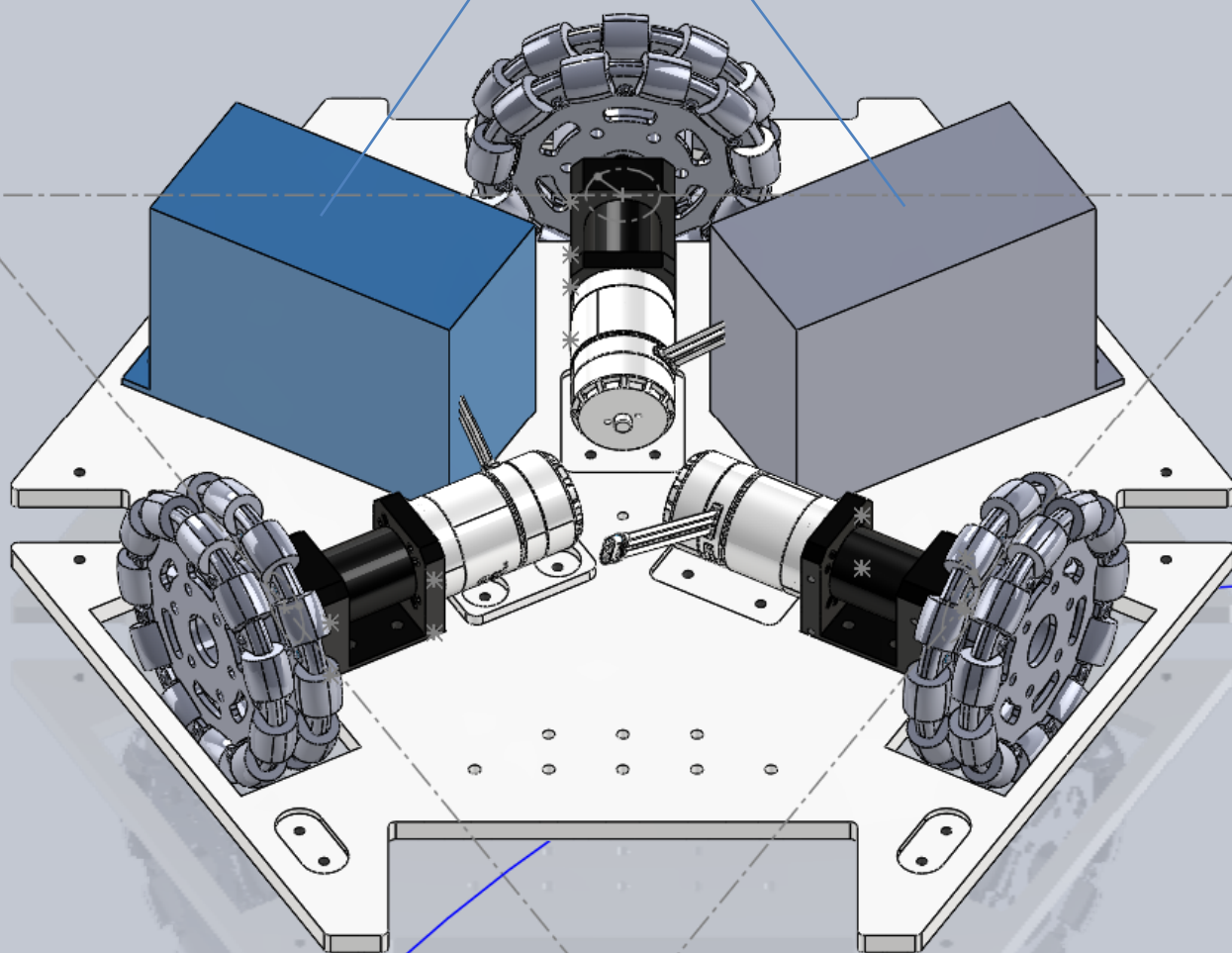
RoboMaster M3508 brushless dc motor



127mm omnidirectional wheel

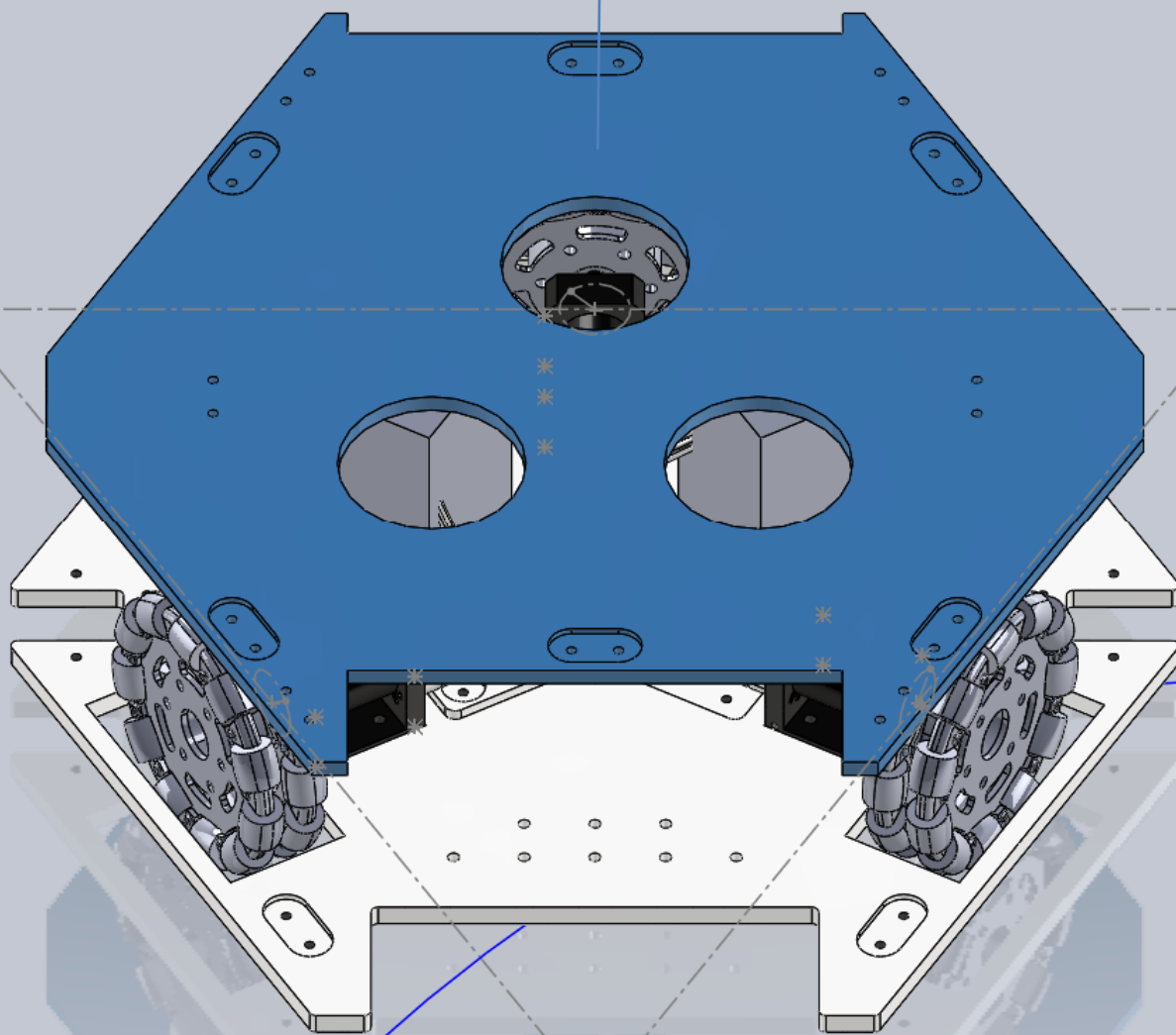


60V power battery

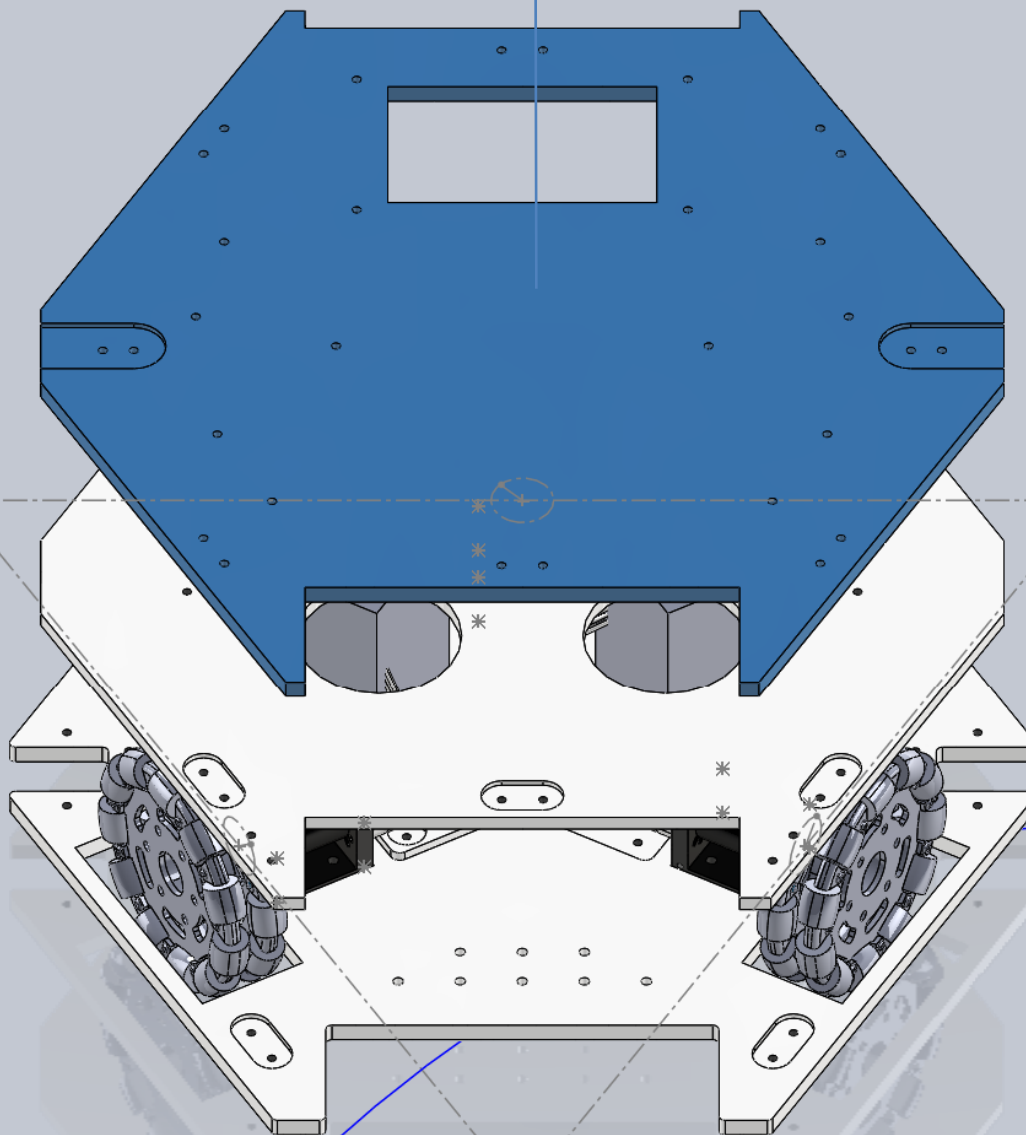




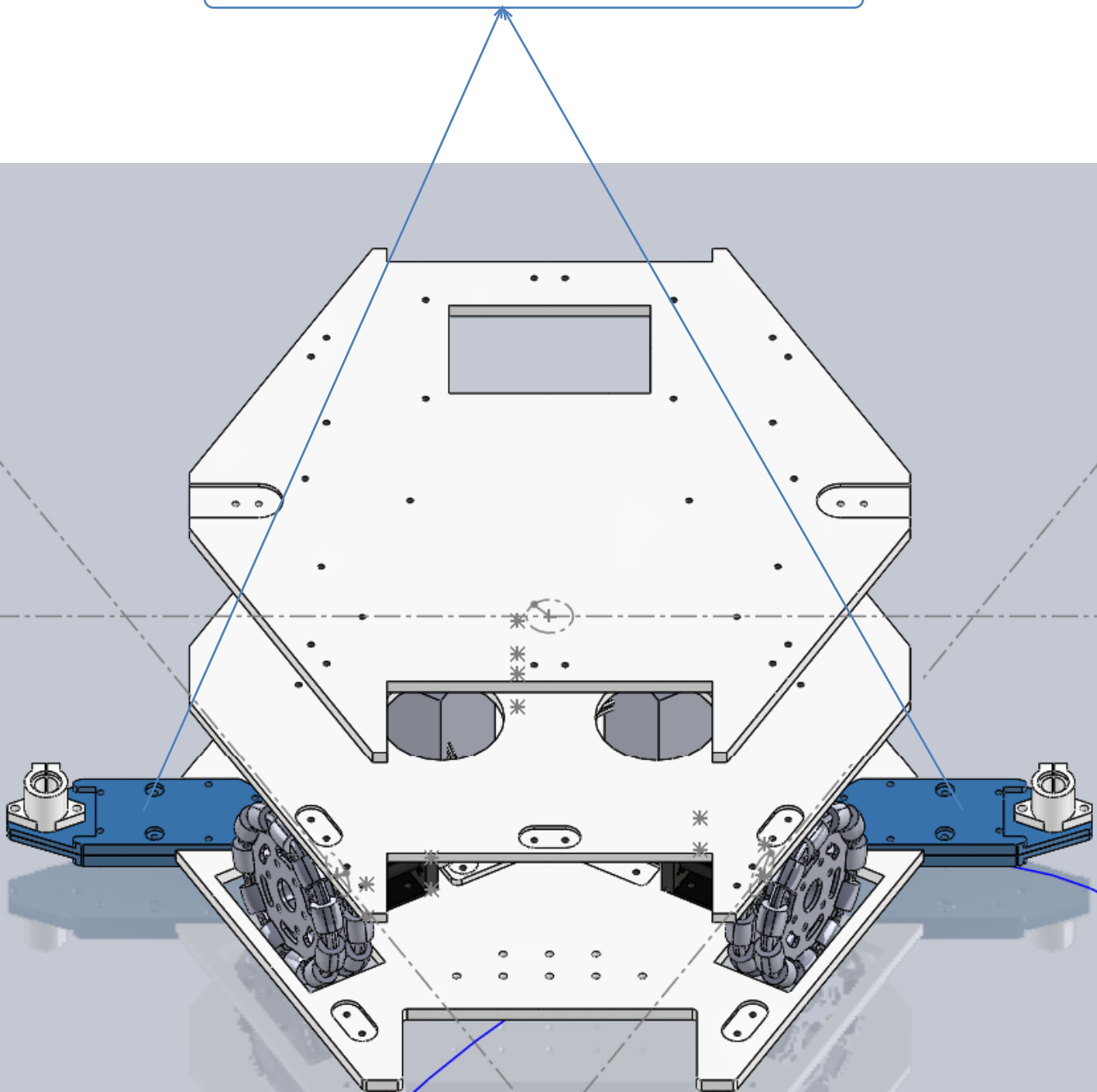
10mm thick carbon fiber  
chassis



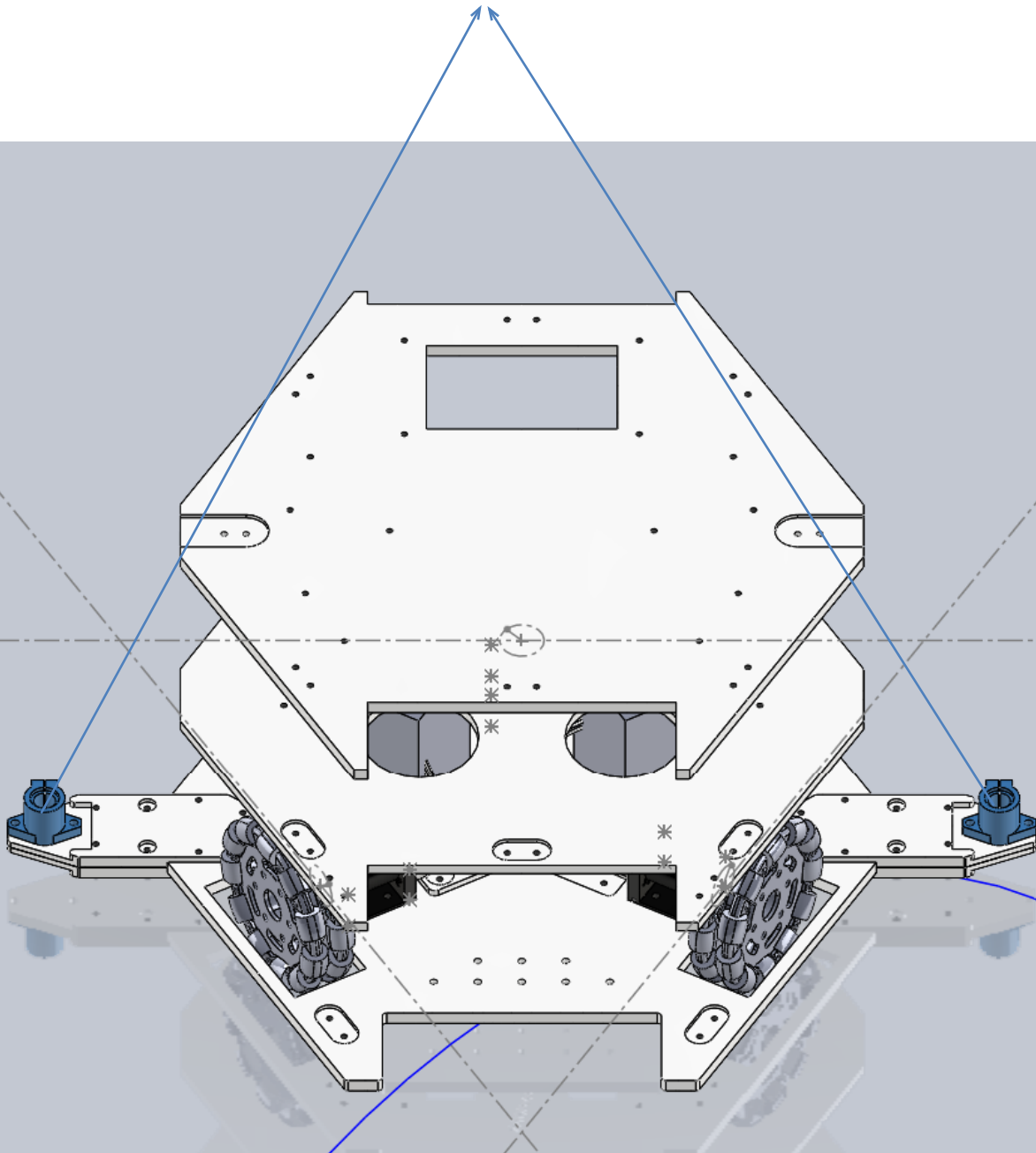
10mm thick carbon fiber  
chassis



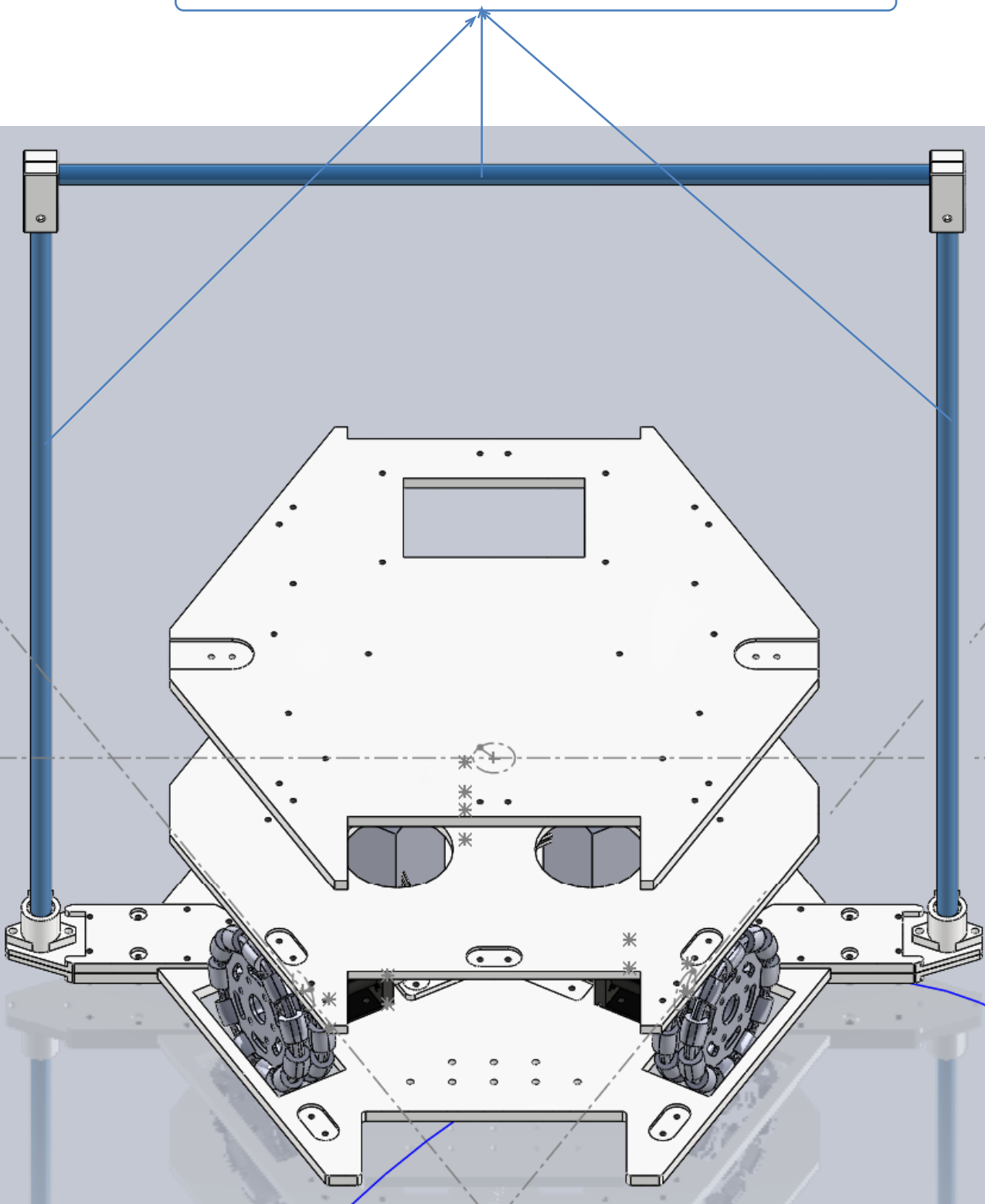
carbon fiber board



Open flange type long guide shaft support  
SHFTL series bracket base aluminum SHFL  
type optical axis fixing seat

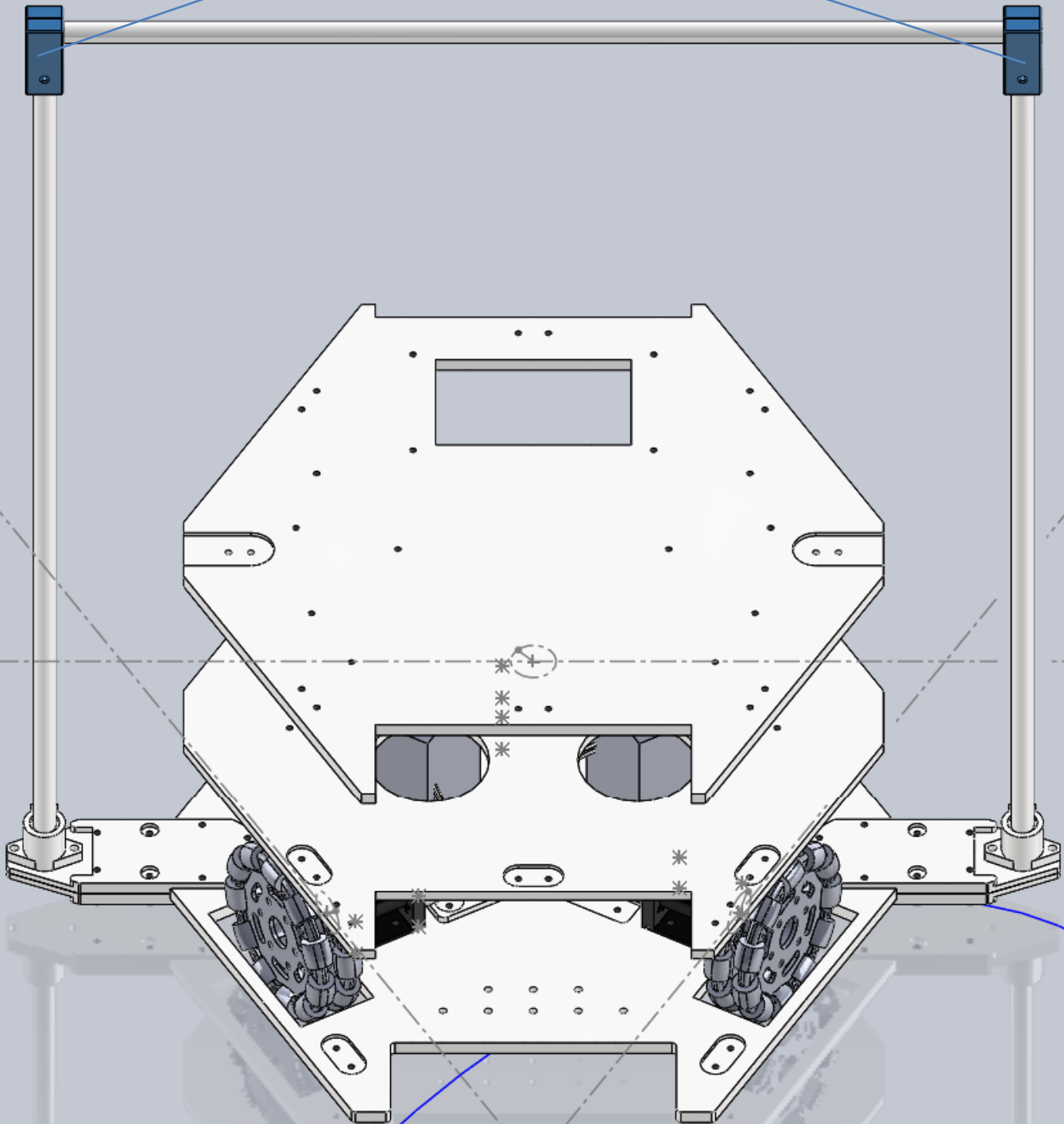


15mm diameter carbon fiber tube

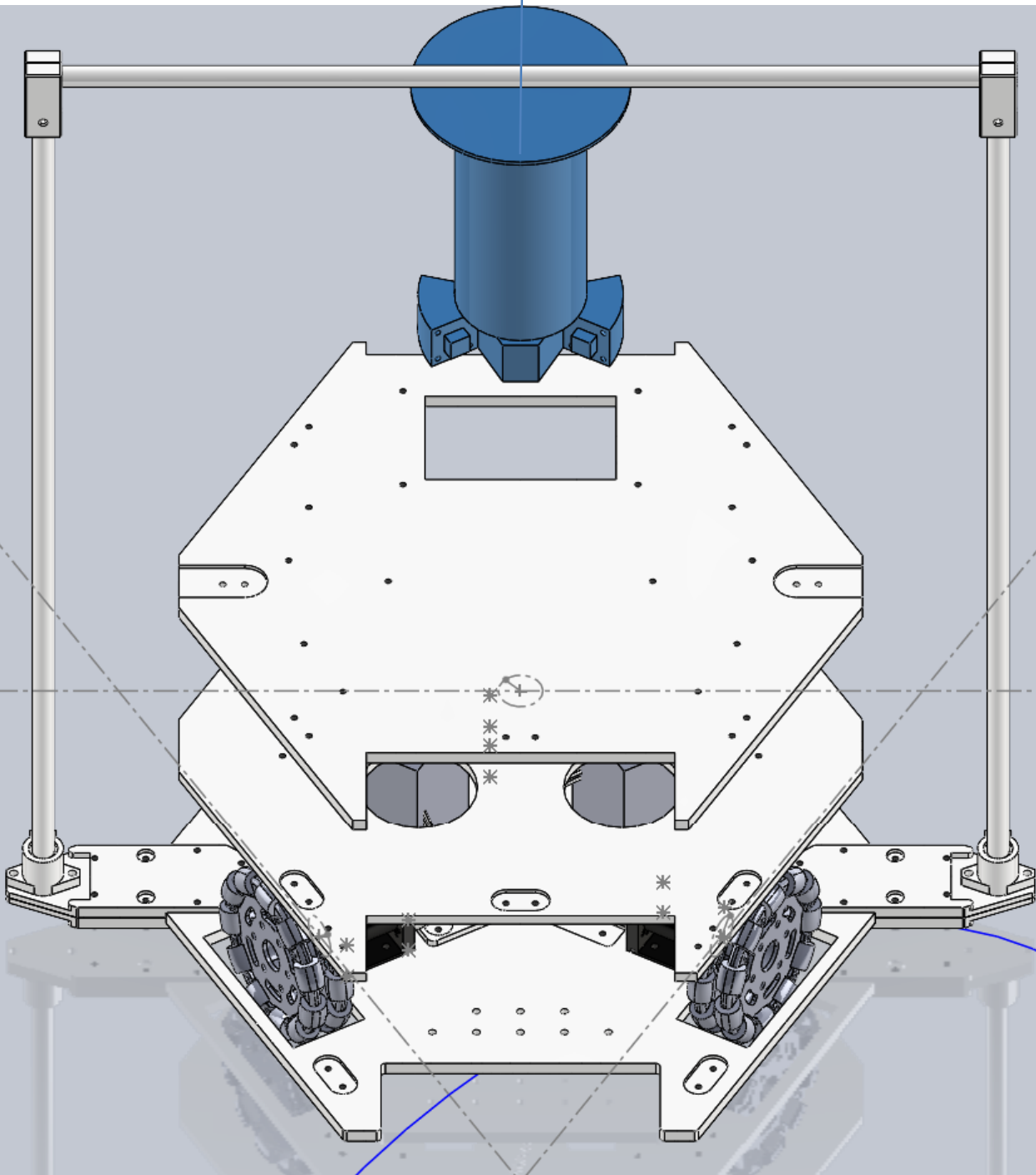




T-shaped pillar fixed clamp cross shaped connector



camera



carbon fiber fixed bracket

