


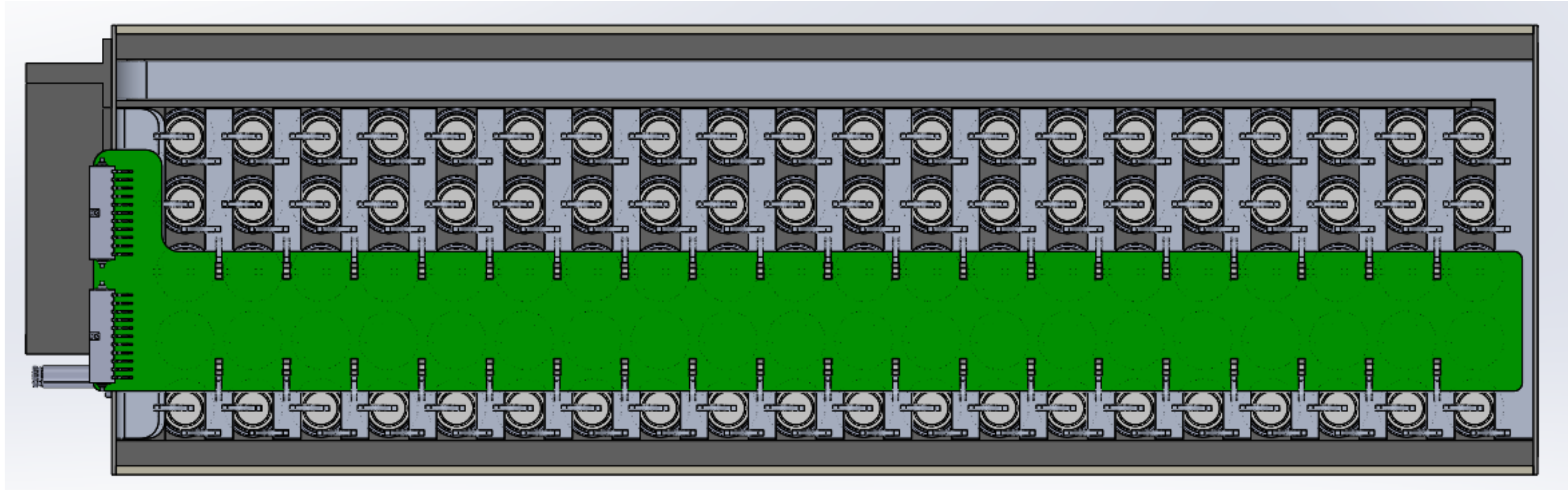




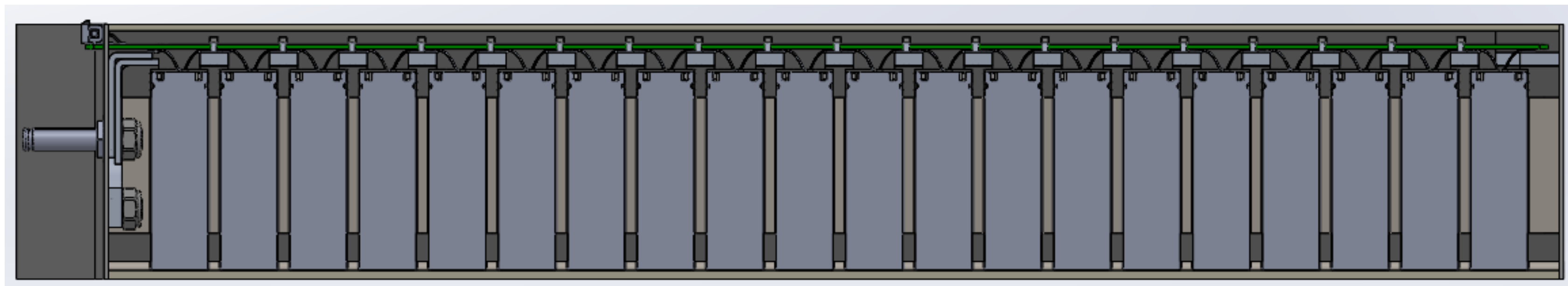
Social Media

-  <https://sites.uci.edu/anteaterelectric/>
-  electric.anteaterracing@gmail.com
-  [@anteaterelectricracing](https://www.instagram.com/anteaterelectricracing)

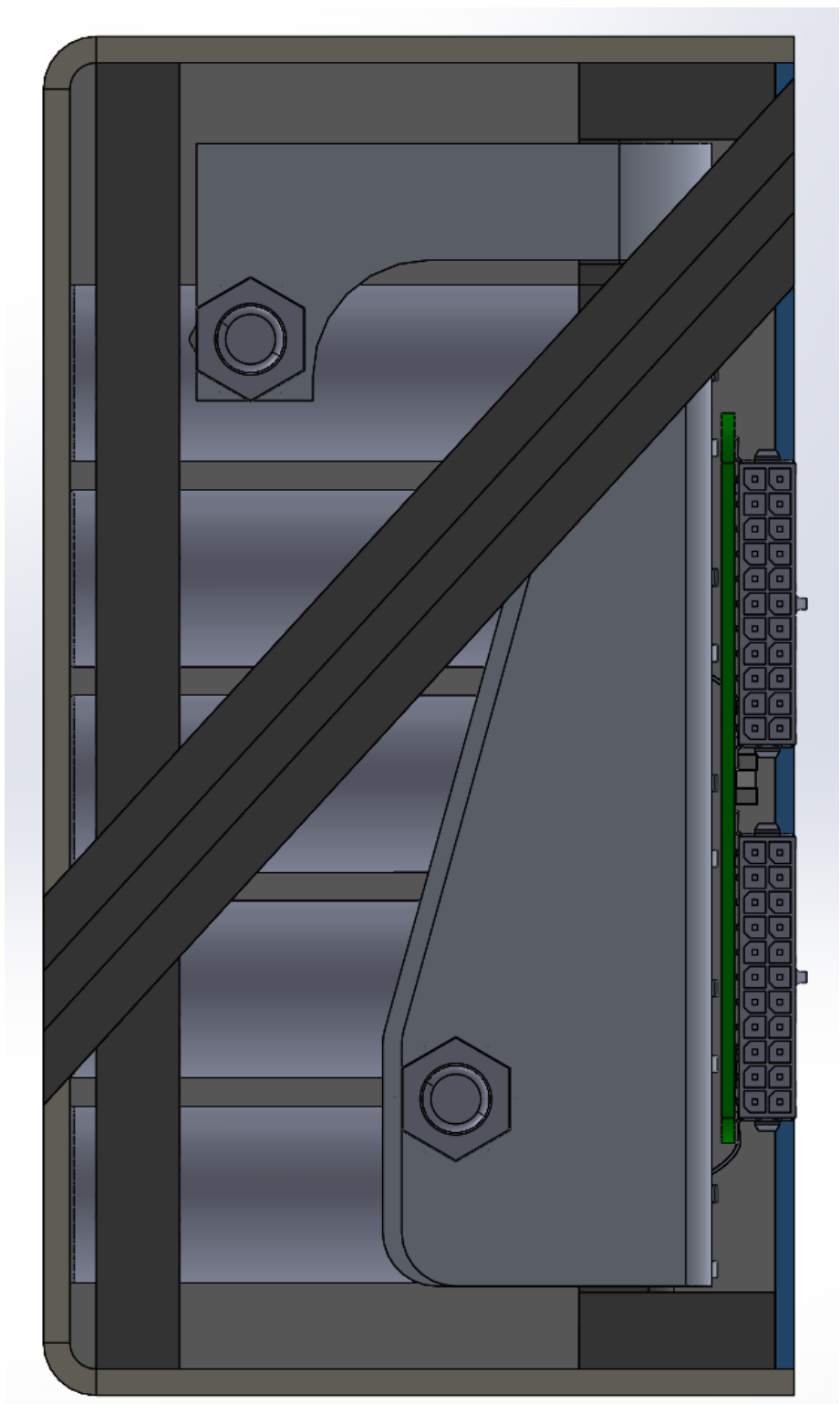
Accumulator – Module Packaging



Top View



Side View

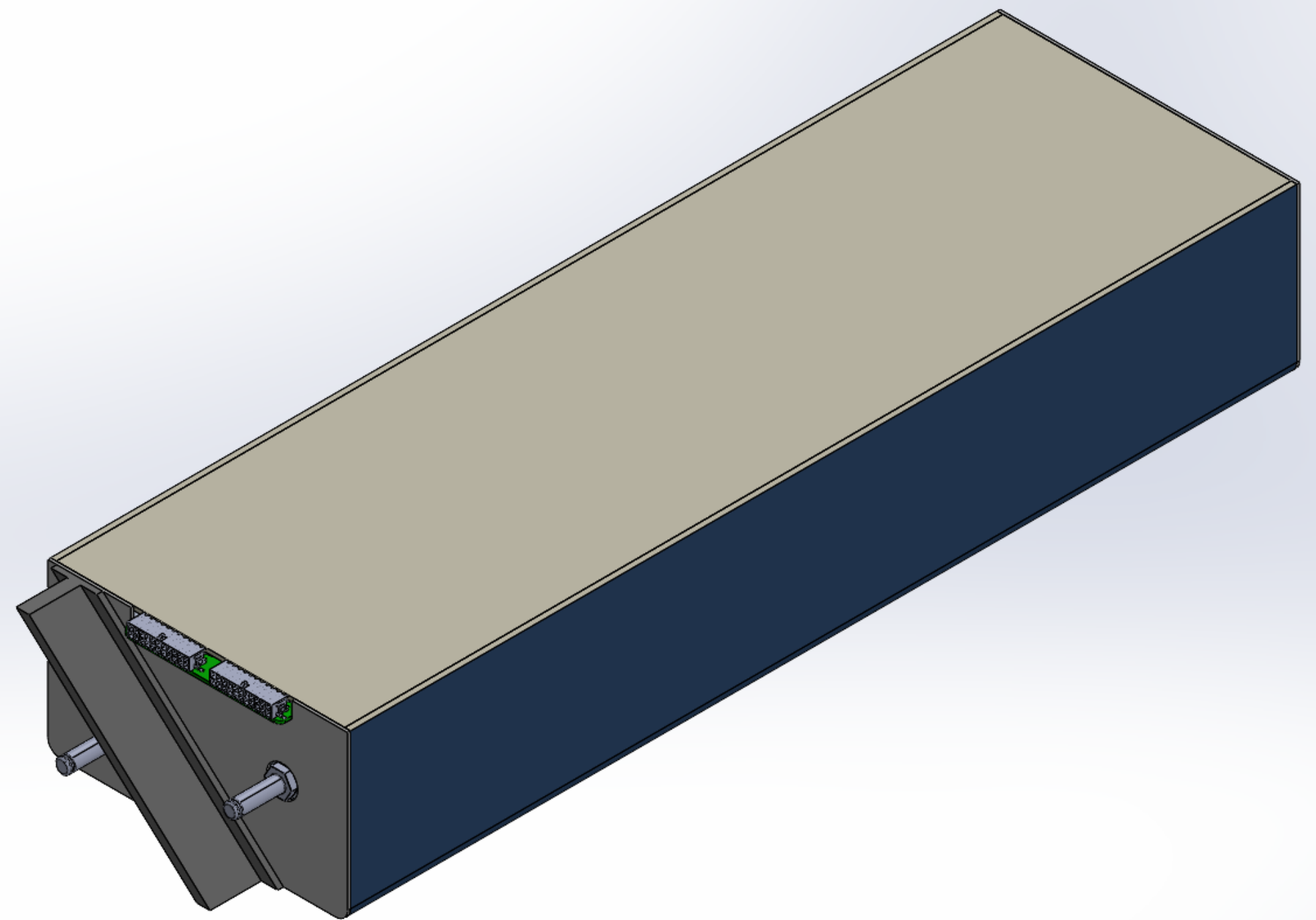


Front View

Accumulator – Pack Topology & Specifications

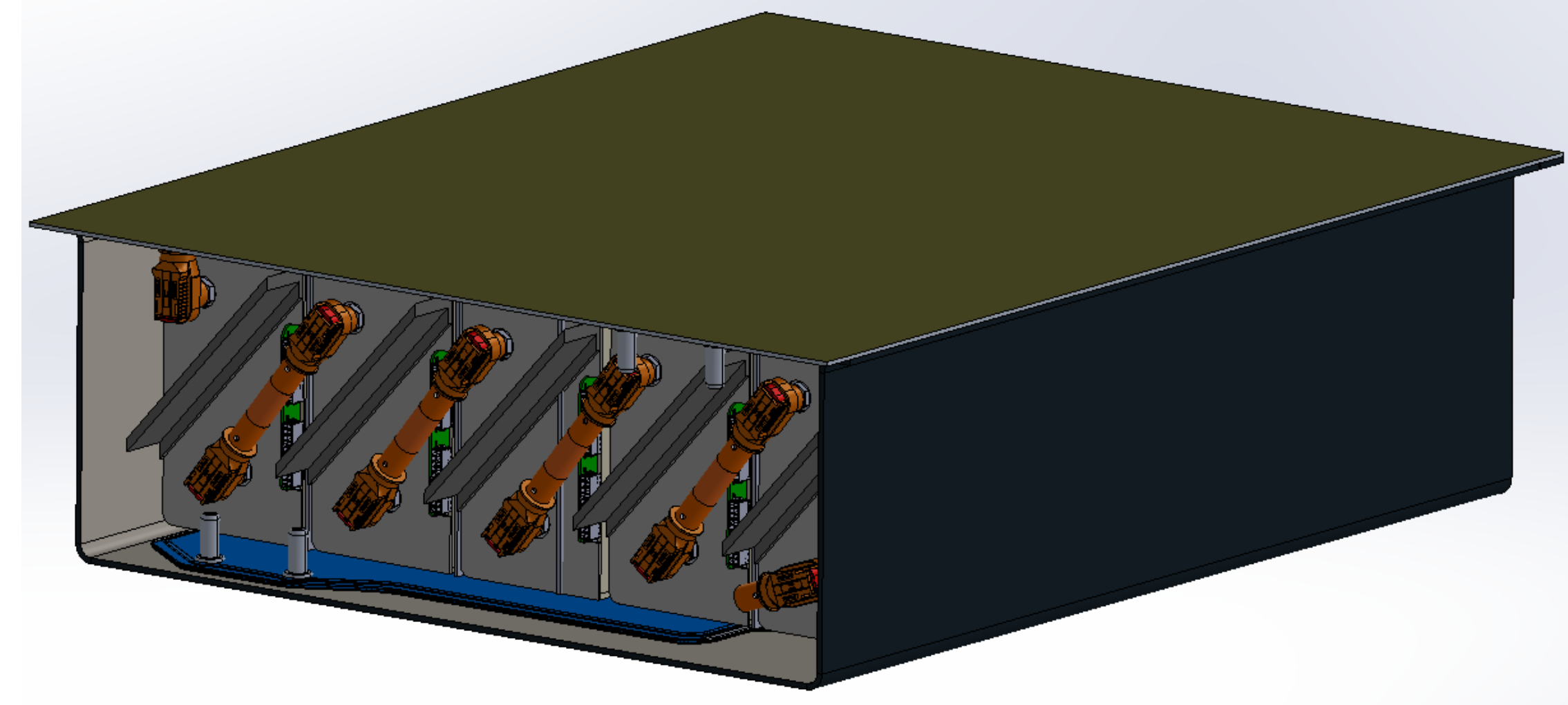
Specifications:

- **Voltage:** 415Vdc Max 200Vdc min
- **Capacity:** 7.4 kWh
- **Steady State Thermal Load:** 2.08 kW / 7097 BTU/hr
- **Output:** 80kW continuous | 296kW peak (1s)

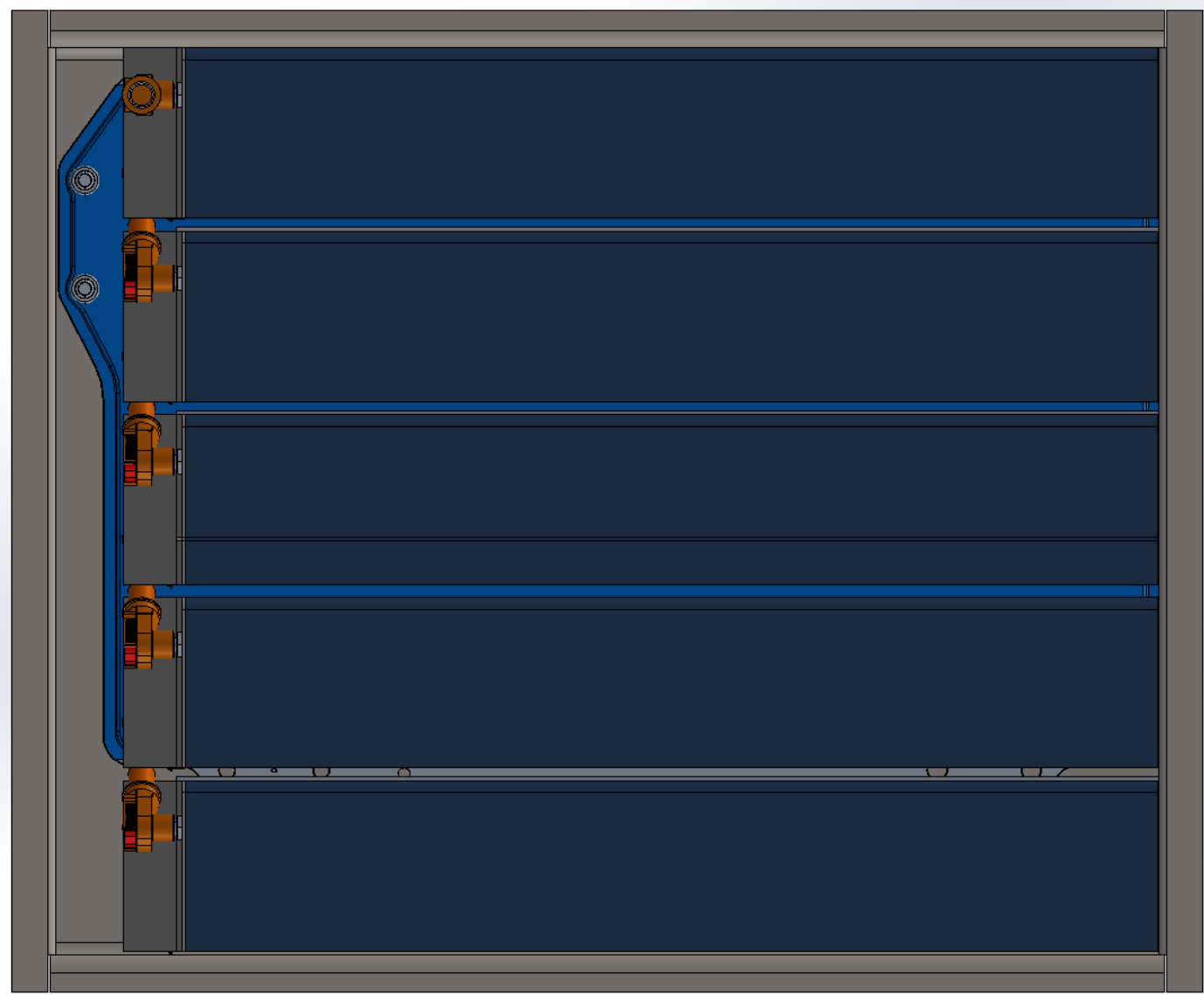


Isometric View

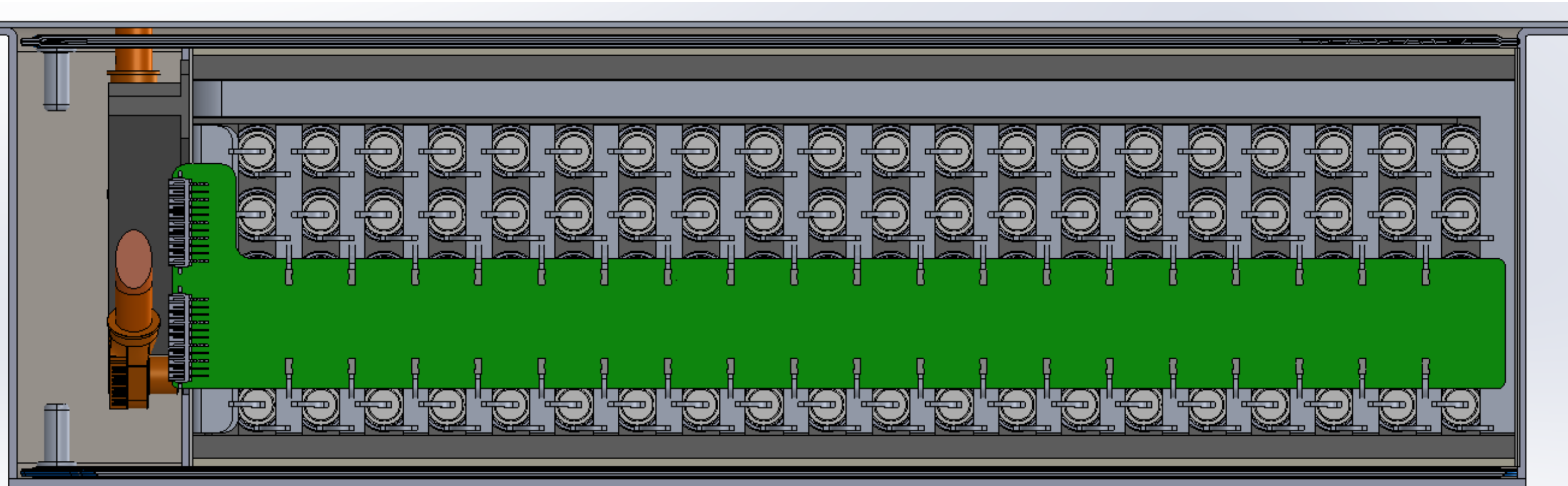
5x



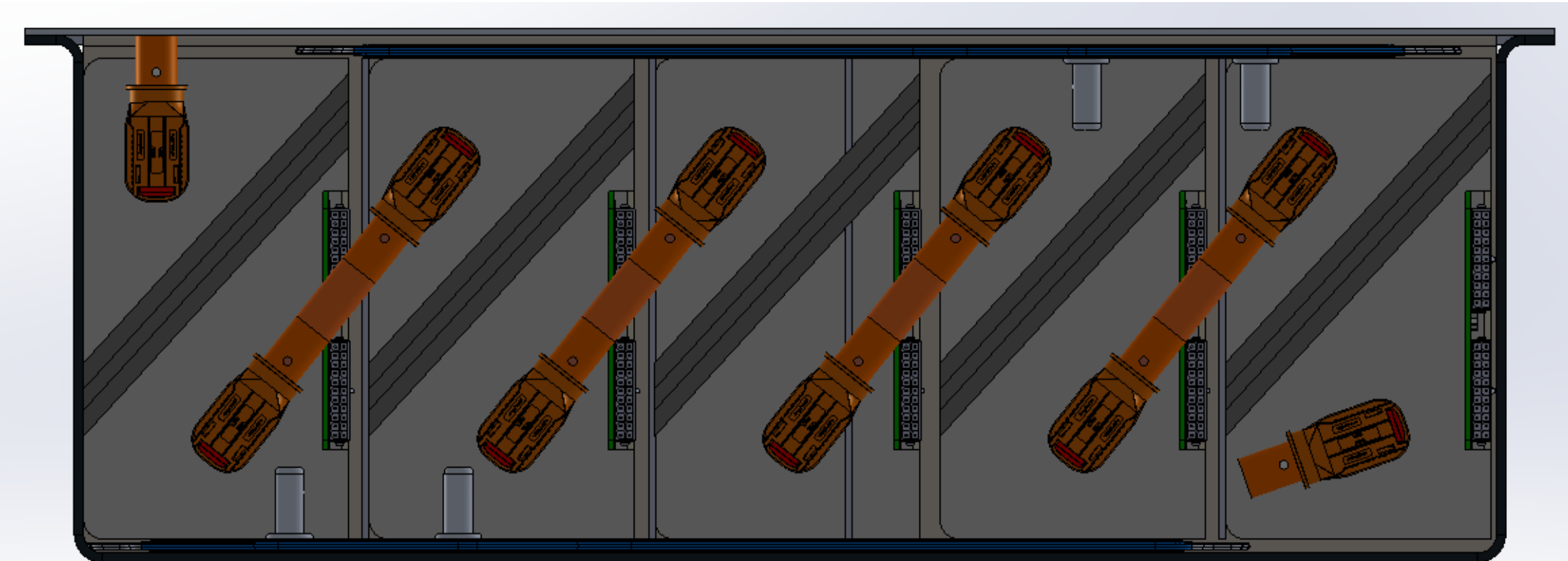
Isometric View



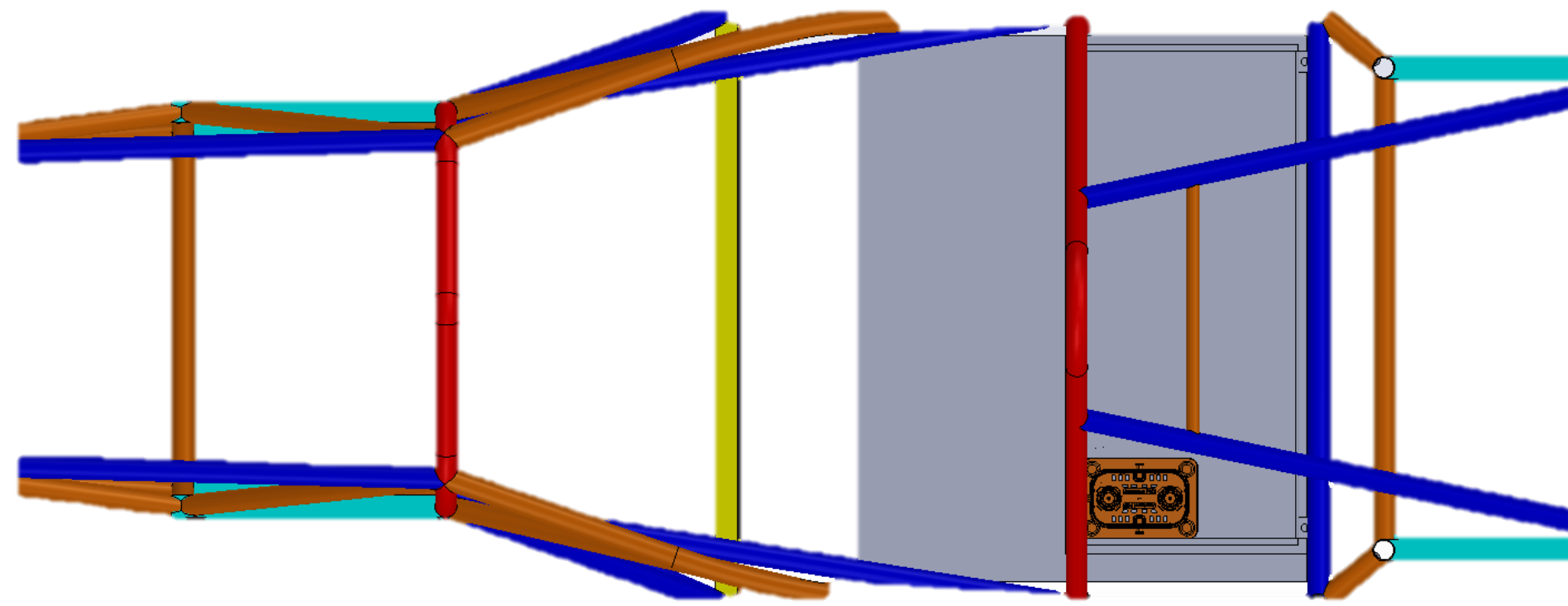
Top View



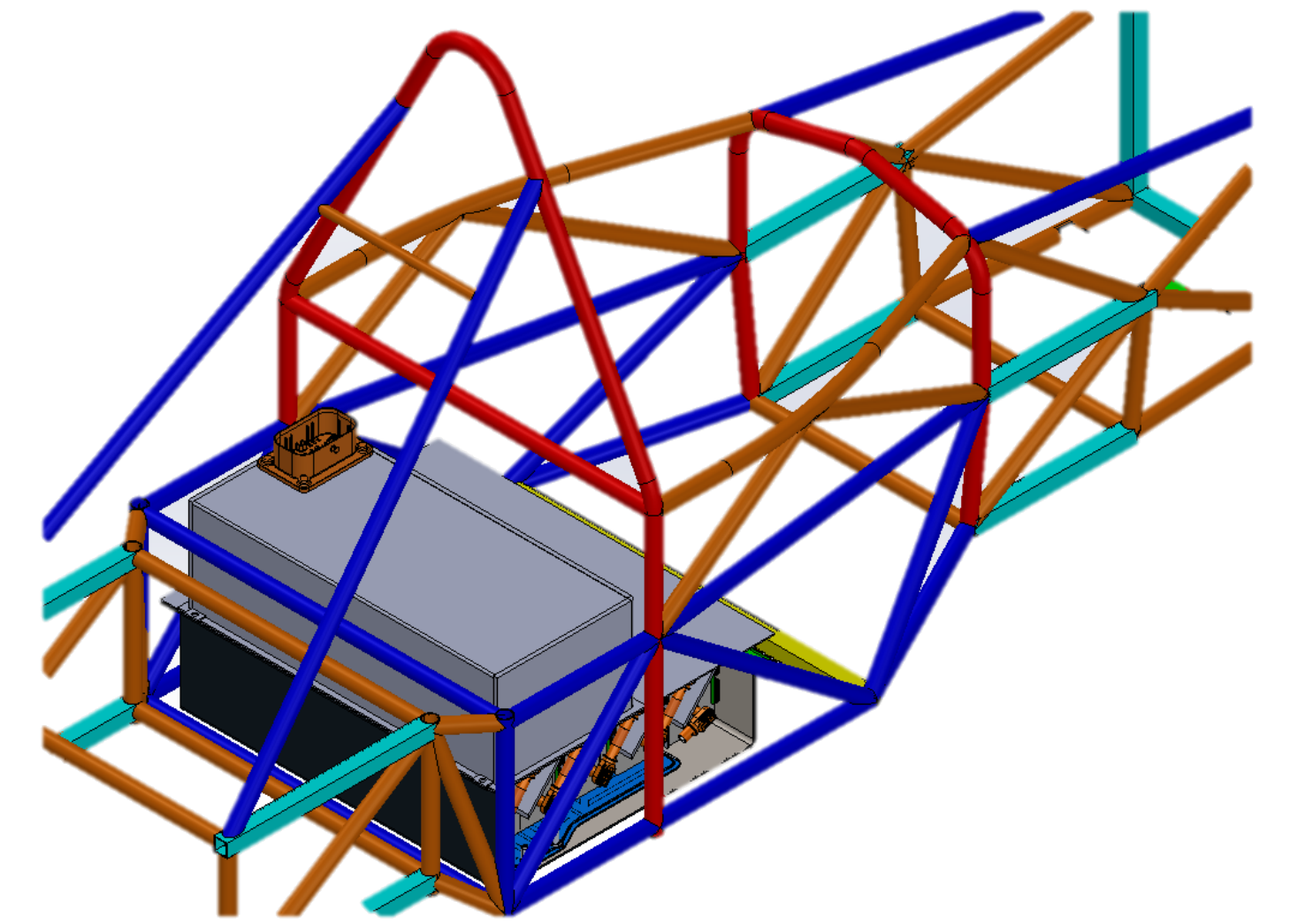
Side View



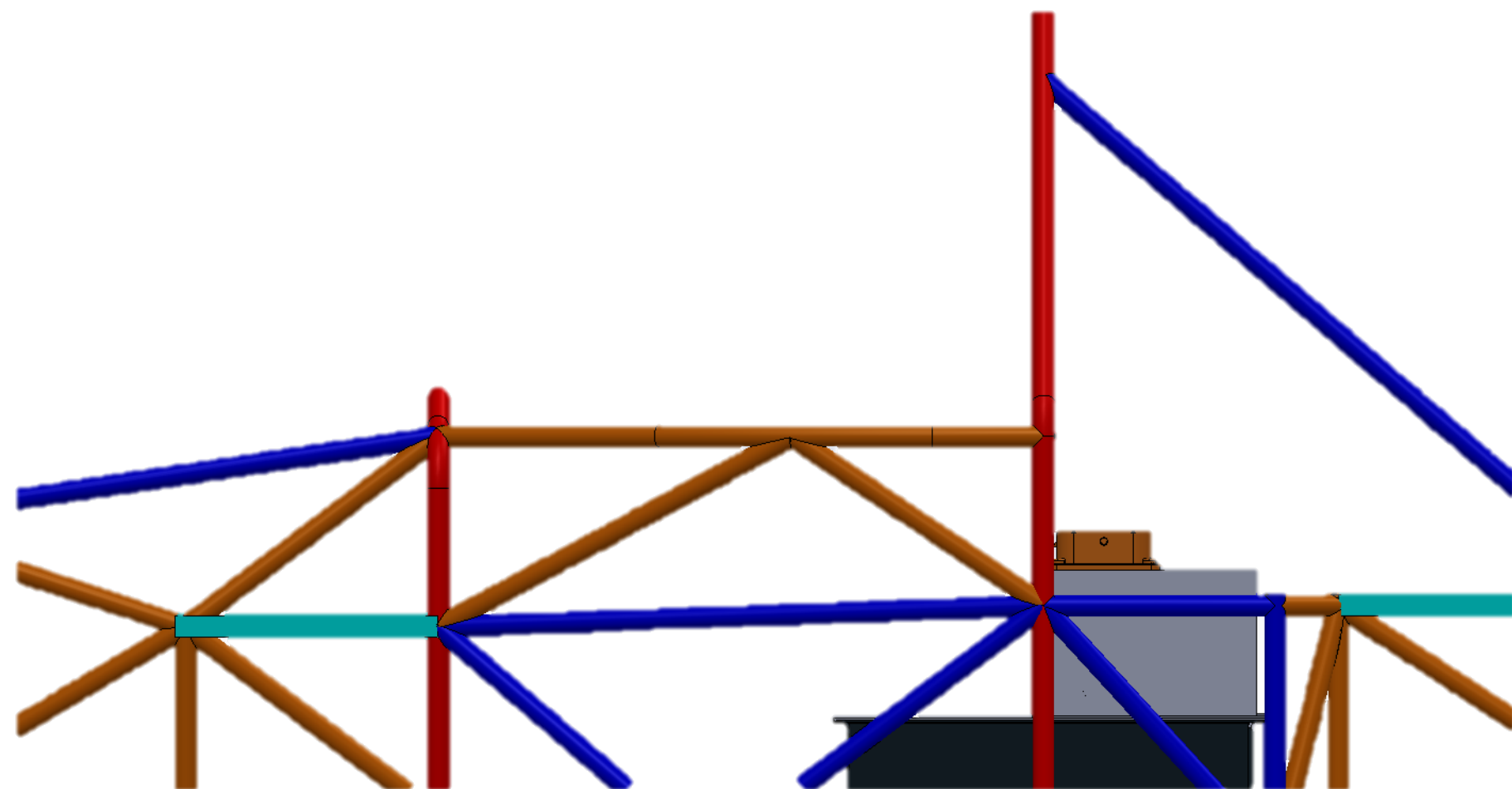
Front View



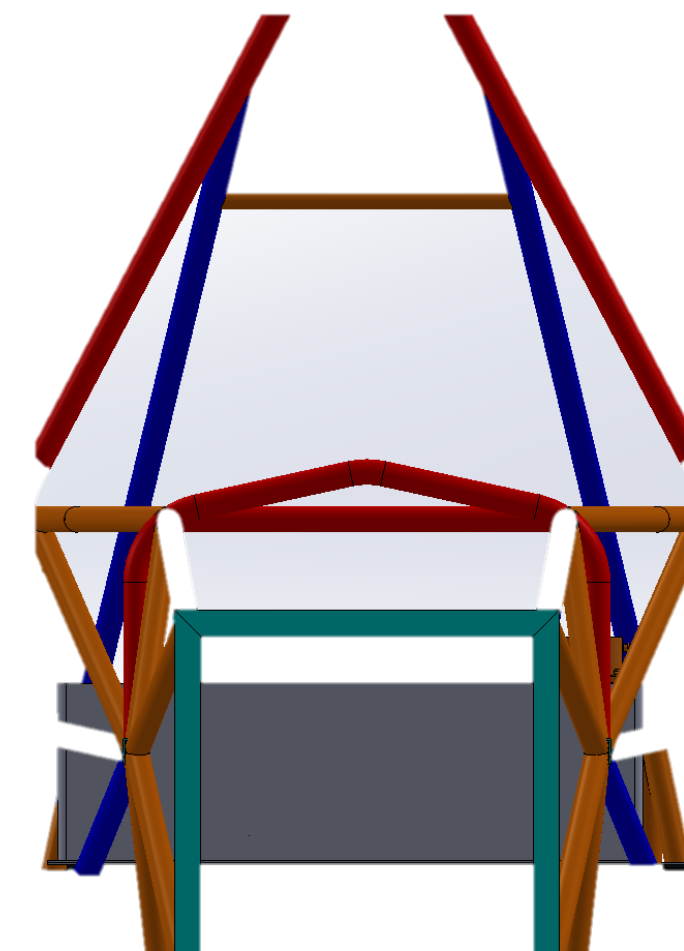
Top View



Isometric View



Side View



Front View

2025 – Electric Safety Form Submitted

Next Steps

- Receive Design Feedback
- Iterate
- Build

Go Back To: [My Team's Document Submissions](#)

Electric Systems Form

Formula SAE Electric

Open Date: 10/14/2024 10:00:00 AM ET
Due Date: 12/9/2024 11:59:59 PM ET
No Submissions Accepted After: 6/16/2025 11:59:59 PM ET

[View in my time zone](#)

xls, xlsx file format 25 MB max

Submit a new or updated document

Select the file to upload:

No file chosen

Allowed File Types: xls,xlsx

Maximum File Size: 25.00 MB

Comment:

Your Most Recent Submission

Filename: [ESF_Anteater_Electric_Racing_2025 \(2\).xlsx](#)

Uploaded by: GabrielSchoene at 12/9/2024

Status: Submitted

Submission History:

Submitted On: 12/9/2024

[ESF_Anteater_Electric_Racing_2025 \(2\).xlsx](#)

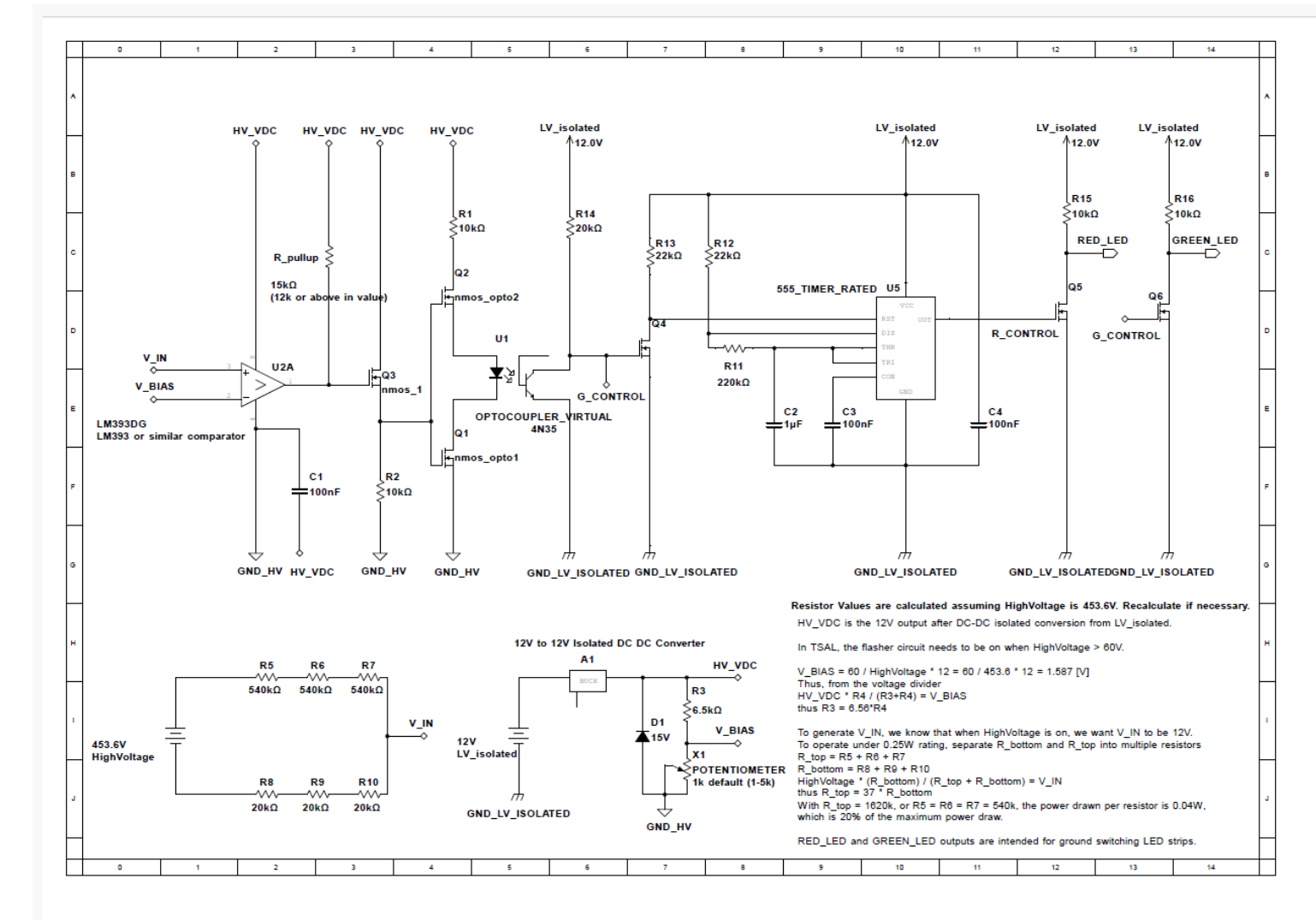
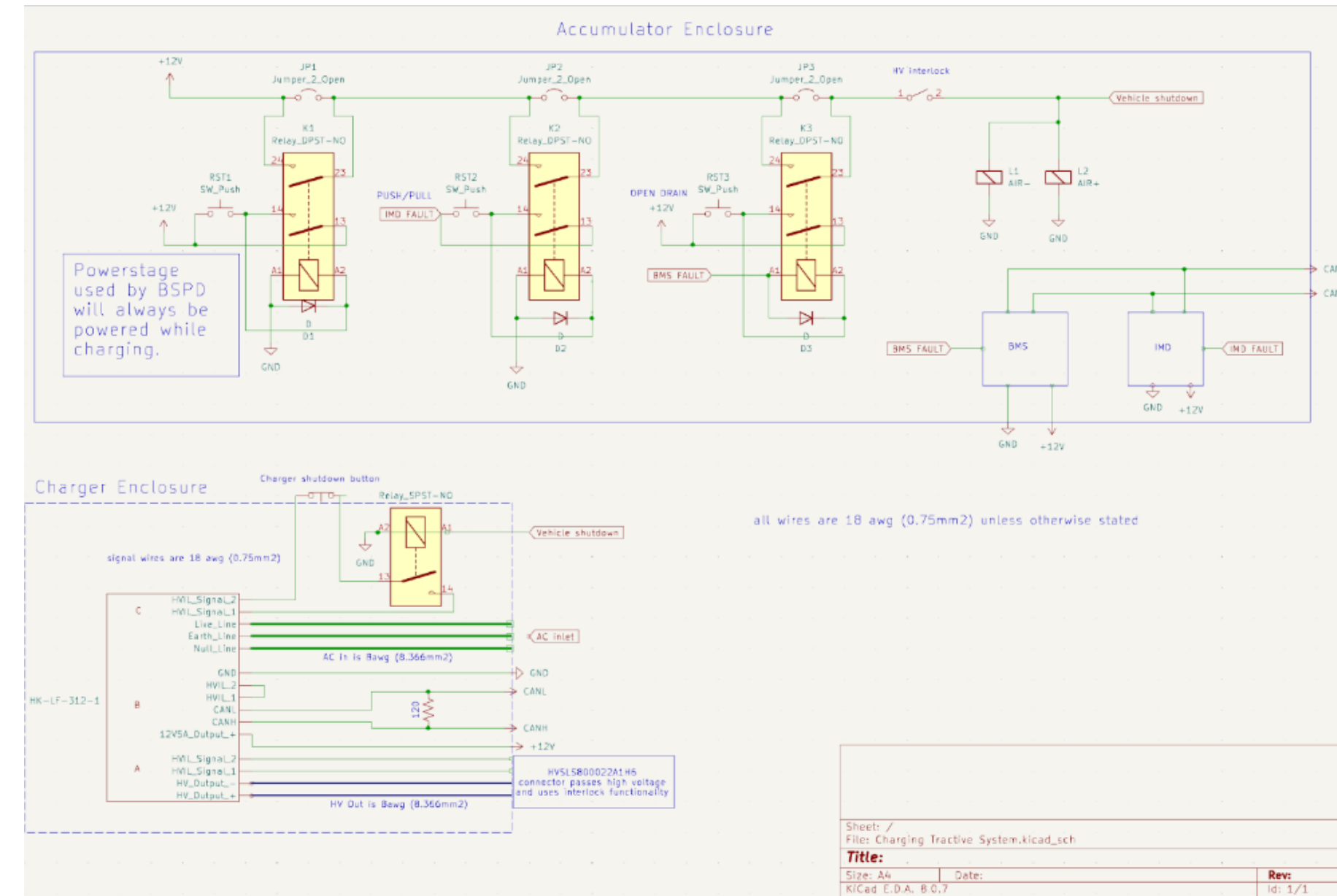
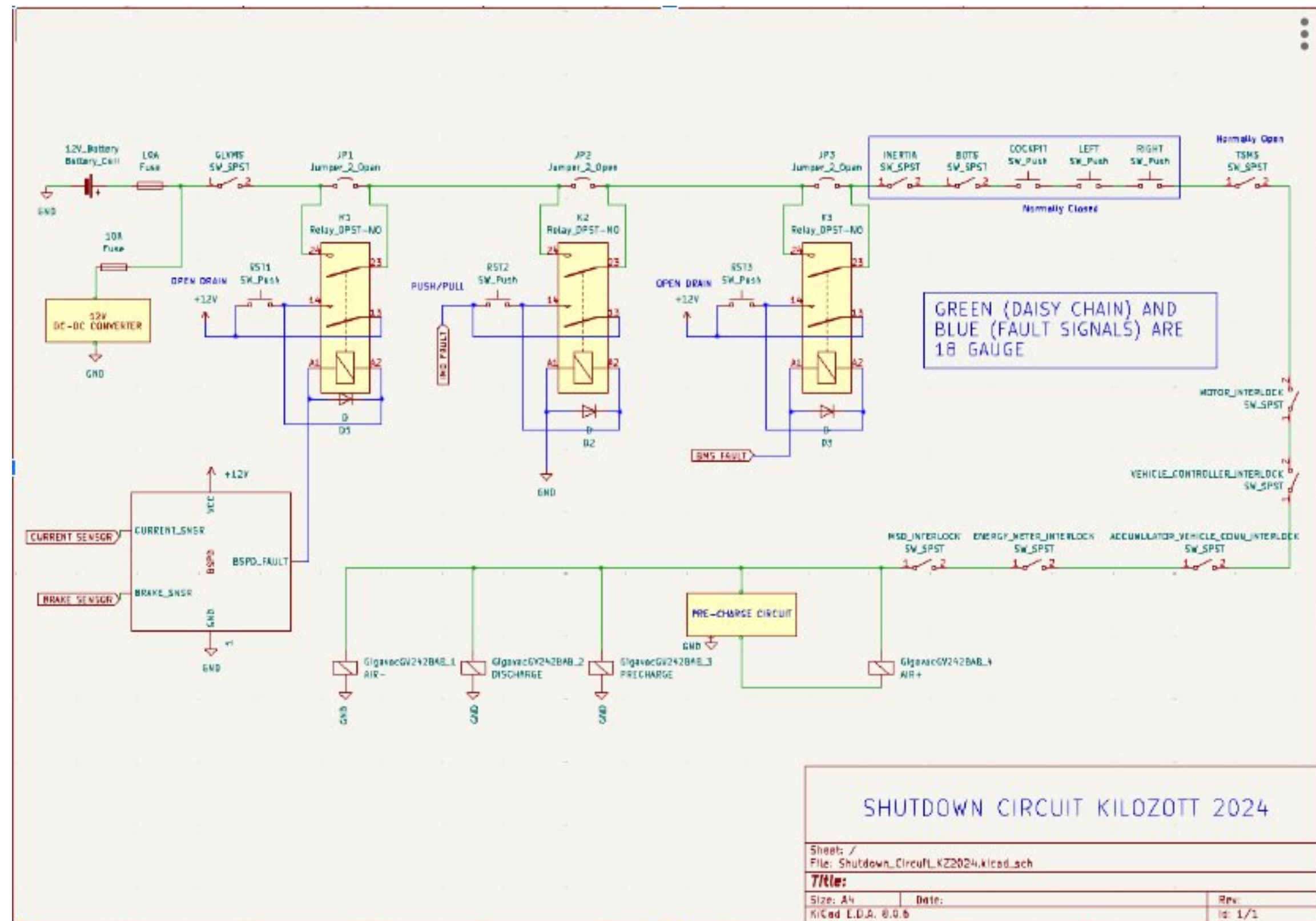
Submitted

Gabriel Schoene (Team Member)

12/9/2024

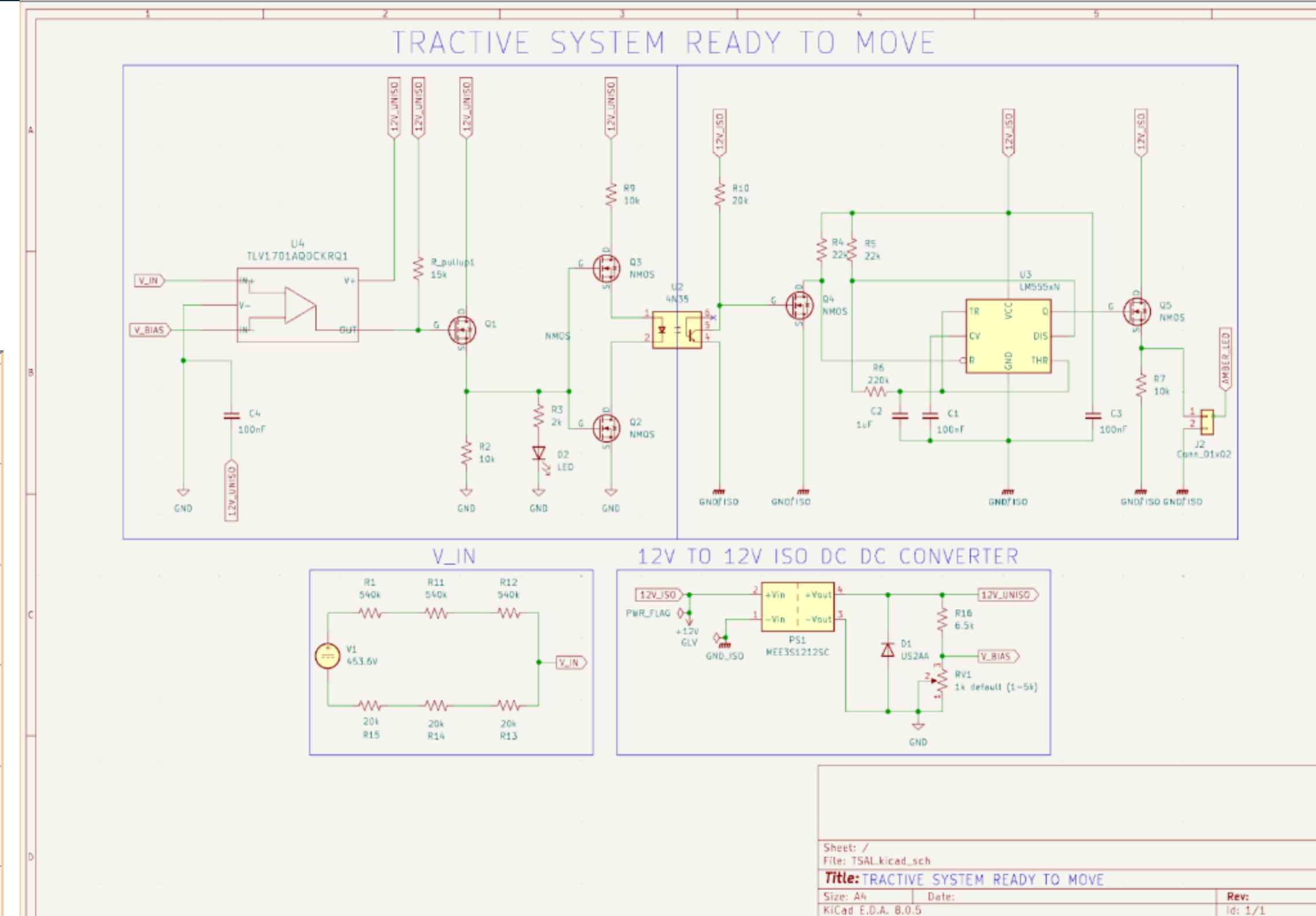
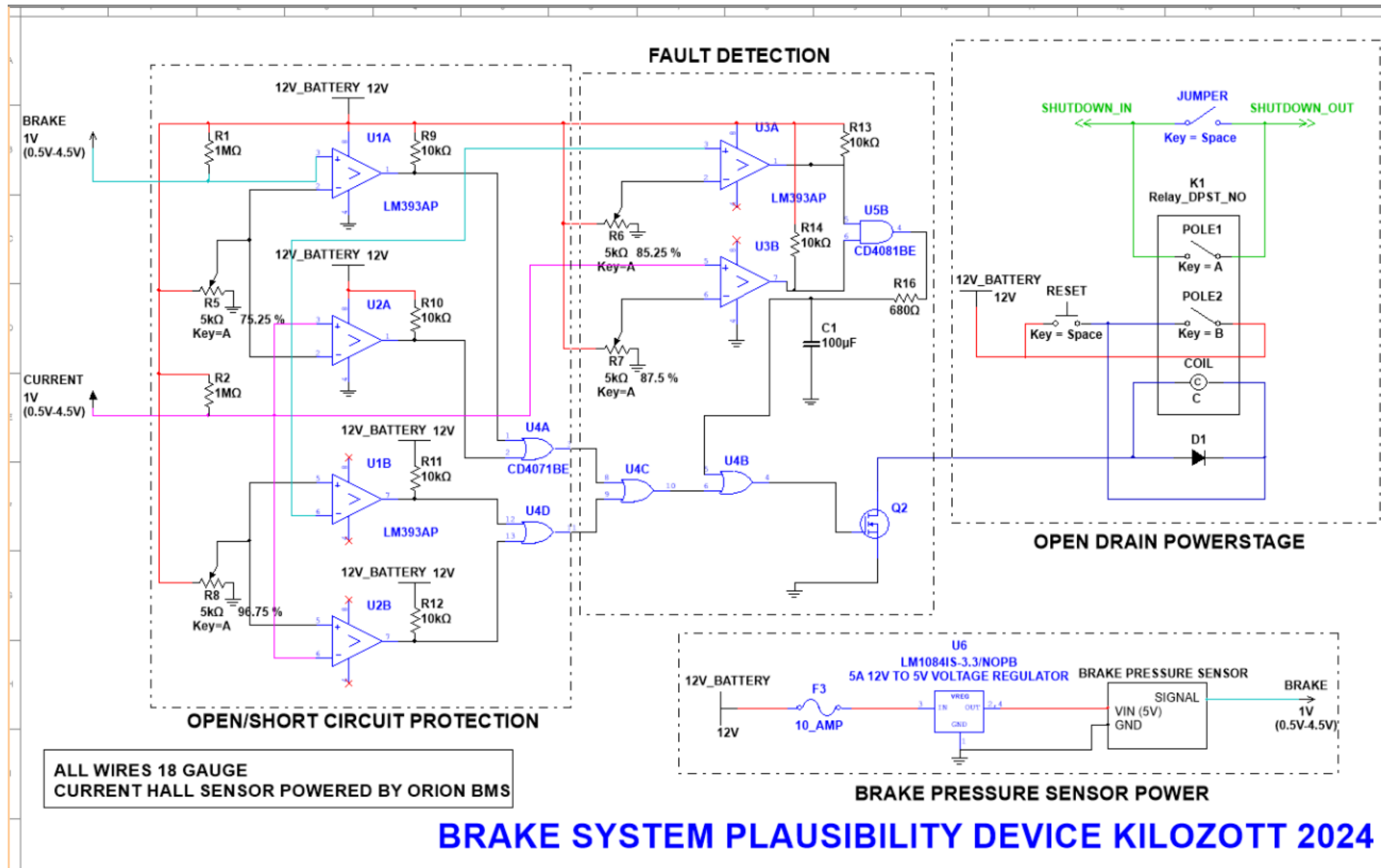
Low Voltage Schematics

- Shutdown Circuit (Bottom Left)
- Charging Shutdown Circuit (Top Right)
- Tractive System Active Light (Bottom Right)



Low Voltage Schematics – Cont

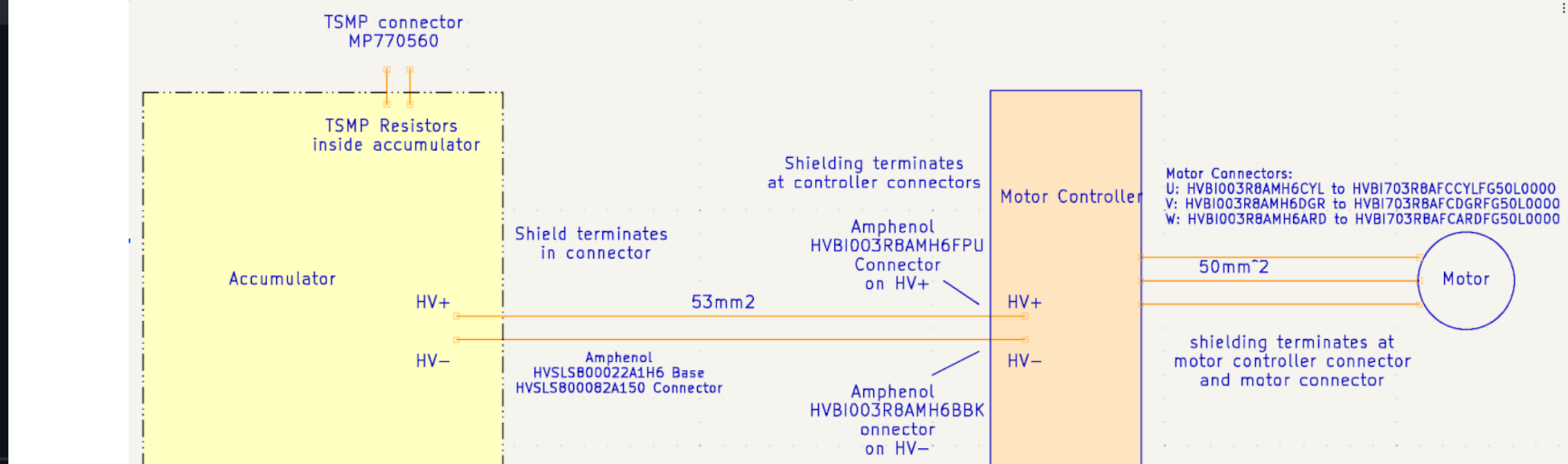
- Brake System Plausibility Device (Bottom Left)
- Tractive System Ready to Move (Top Right)



Anteater Electric Racing
Formula SAE Electric at University of California, Irvine

2 followers | <https://sites.uci.edu/anteaterelectric/> | [anteaterelectricracing](#) | electric.anteaterracing@gmail.com

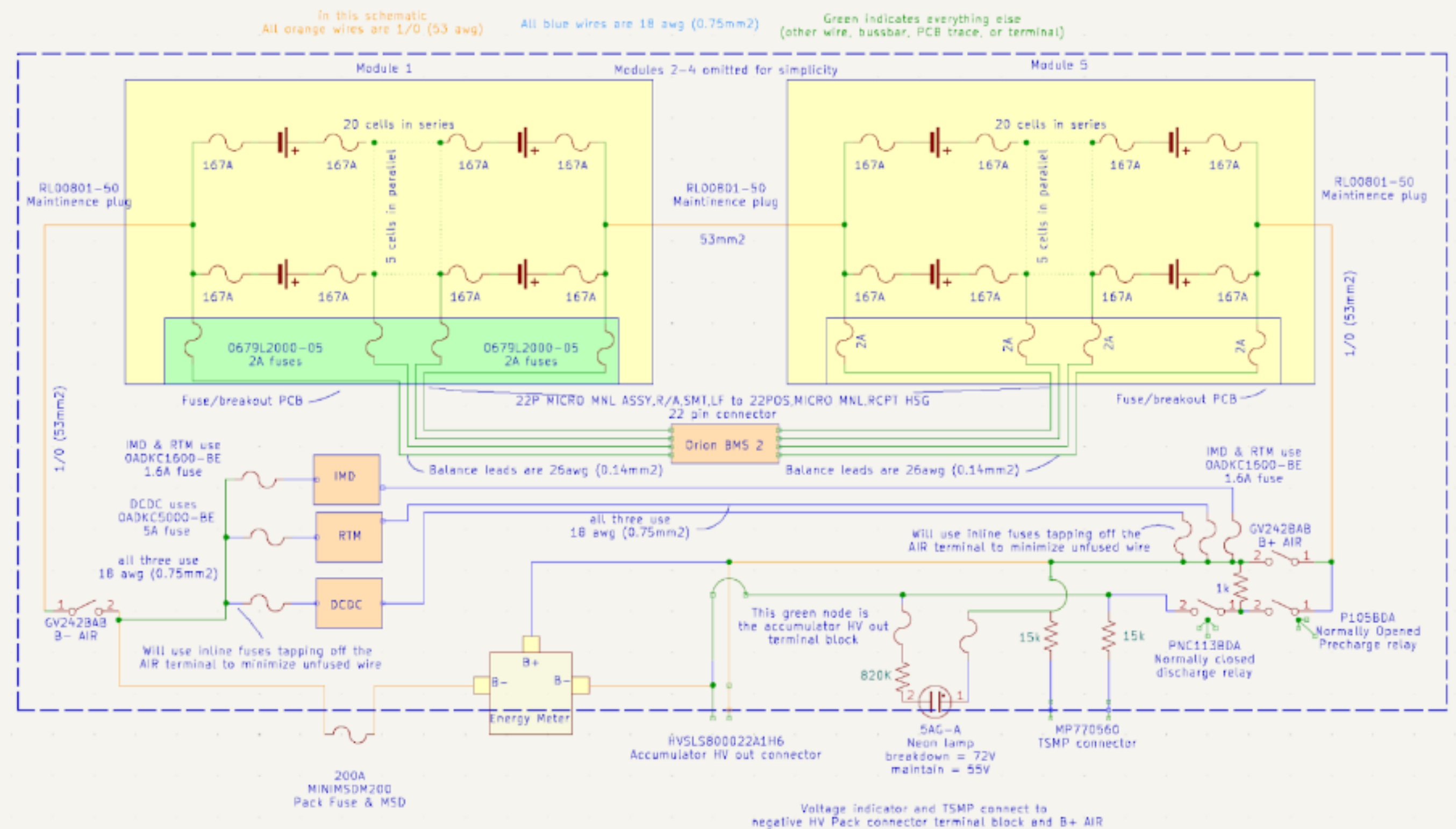
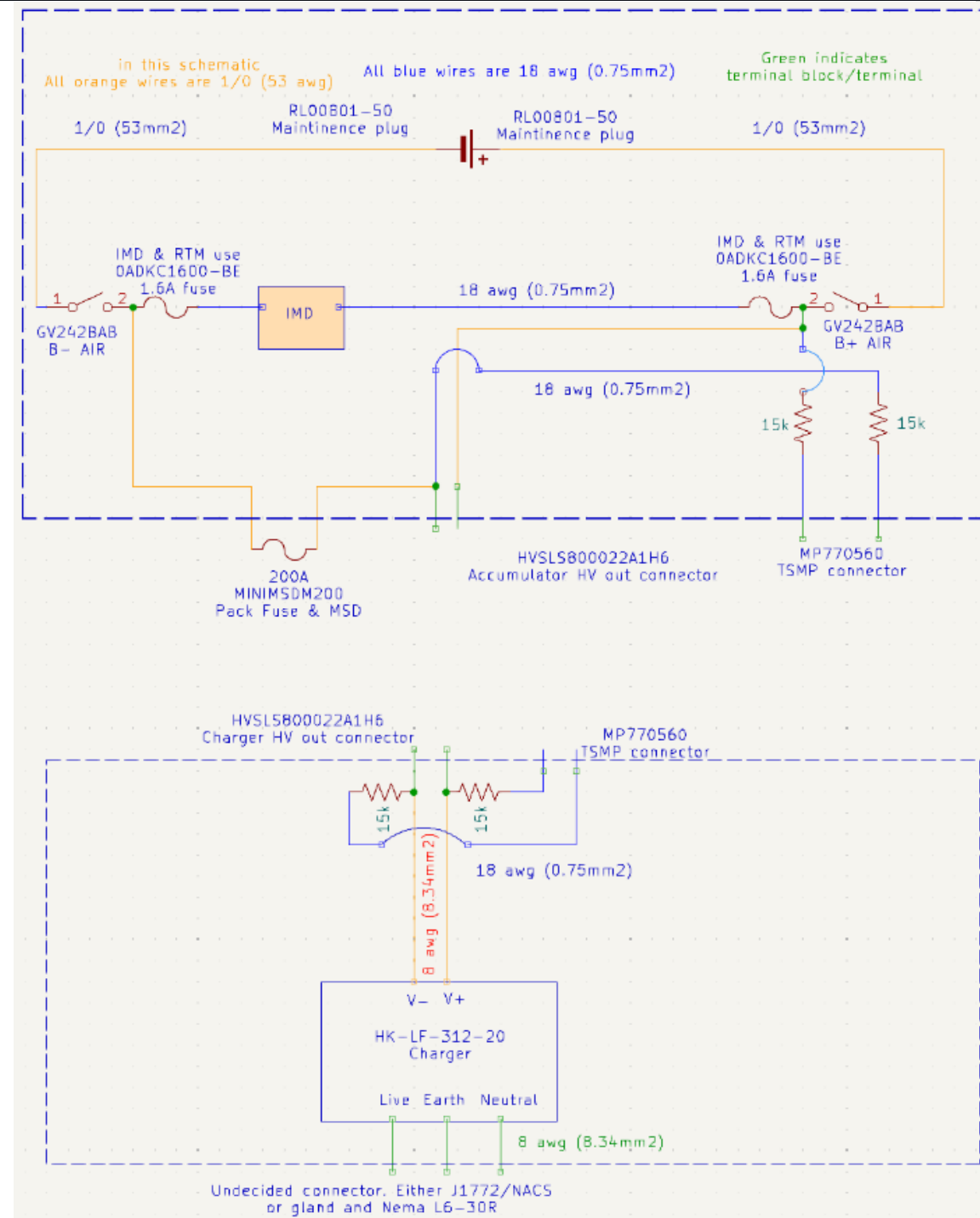
Overview | Repositories 3 | Projects | Packages | People



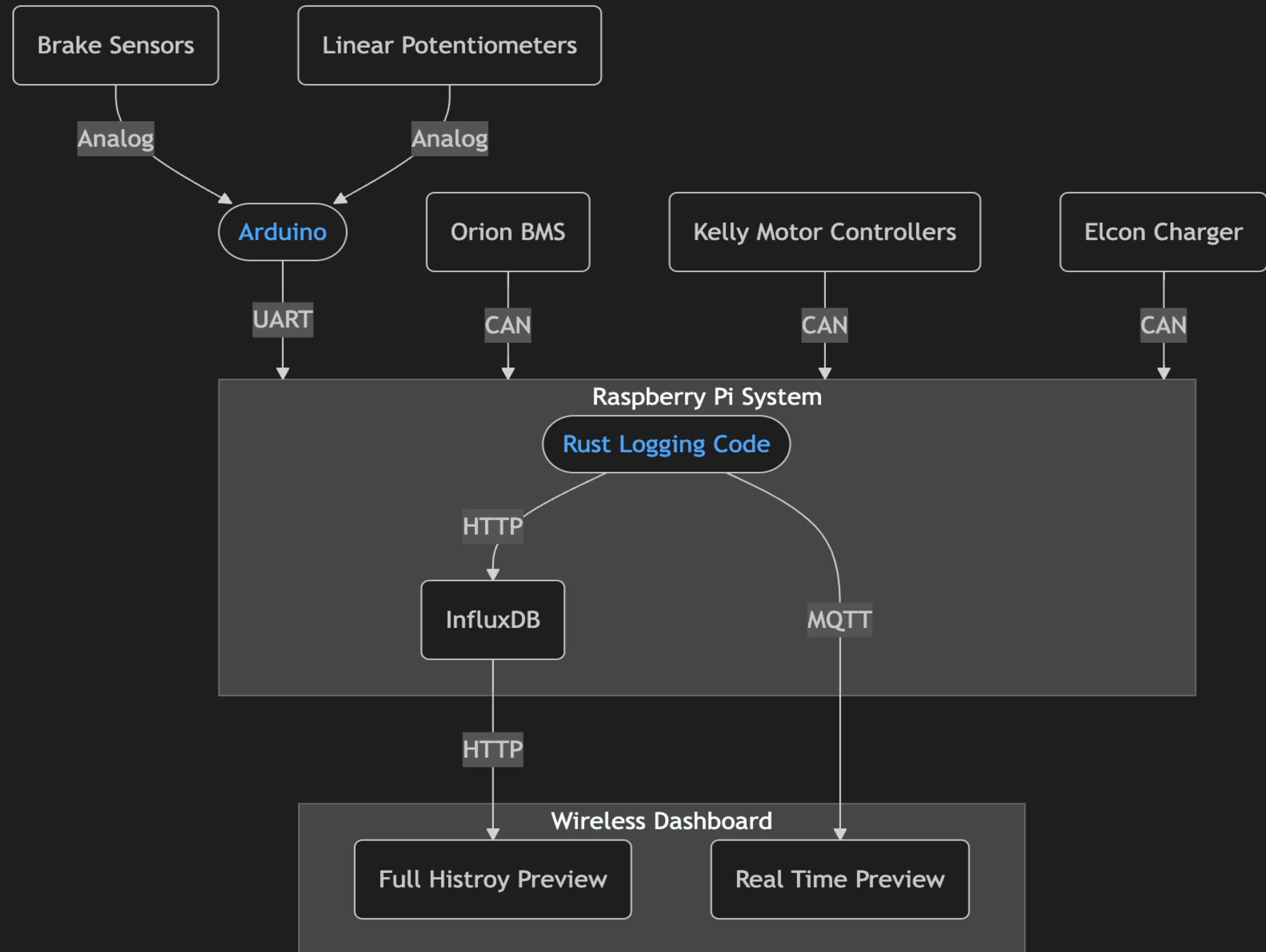
High Voltage Schematics

- Tractive System Schematic (Top Right)
- Accumulator Tractive System (Right)
- Charging Tractive System (Left)

Started using GitHub repository for version control





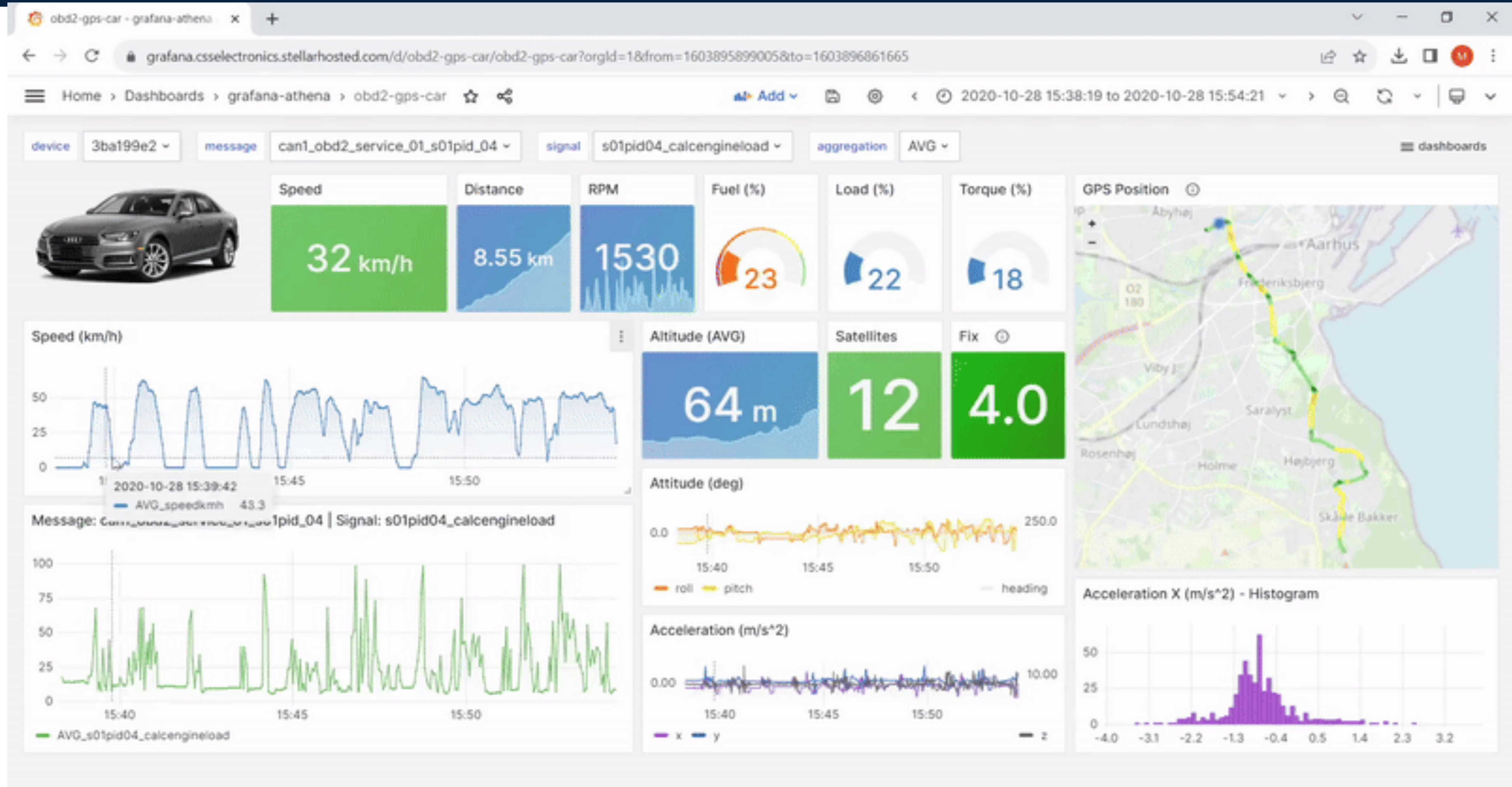


15km+ Wireless Data Transmission

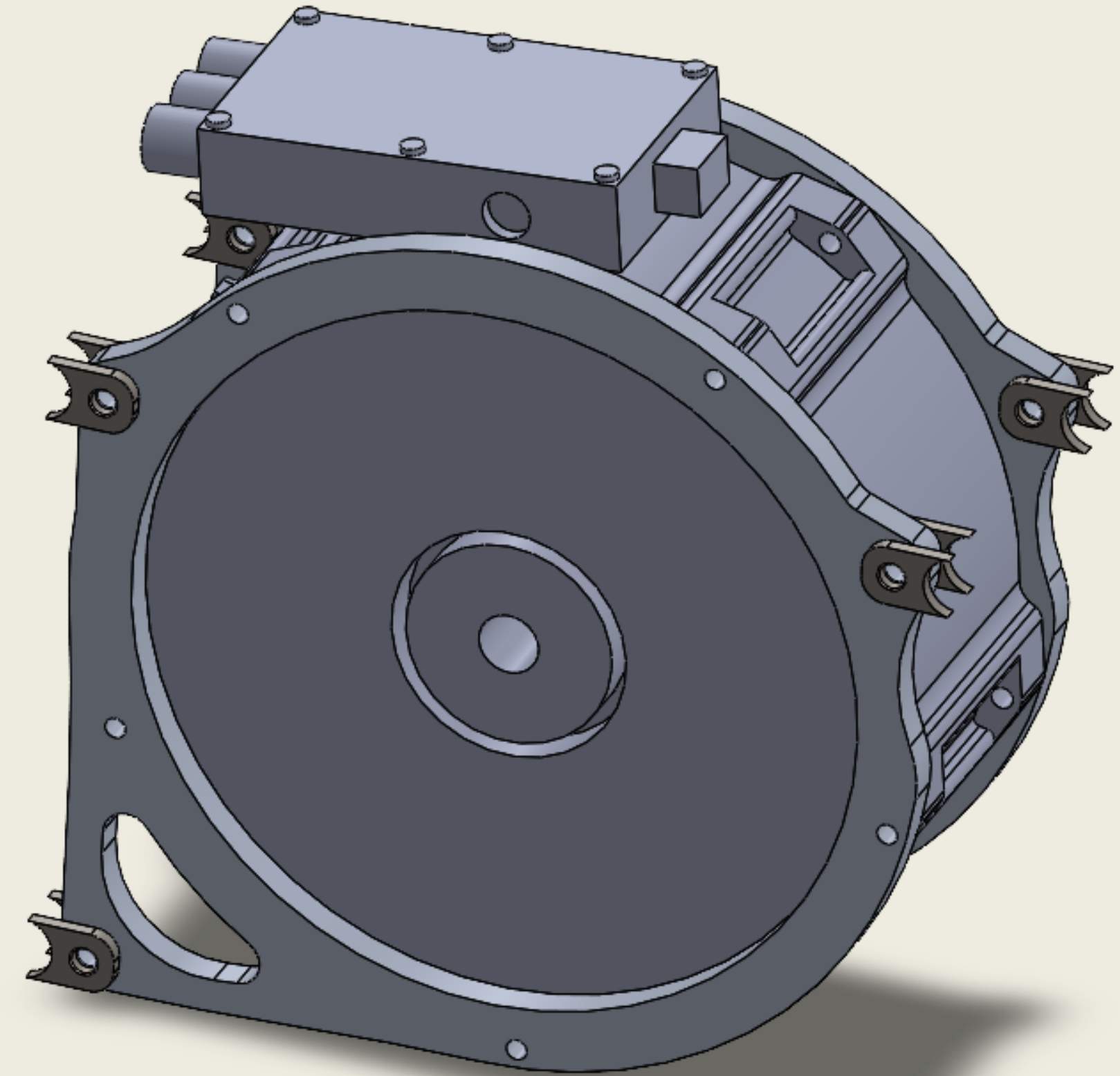
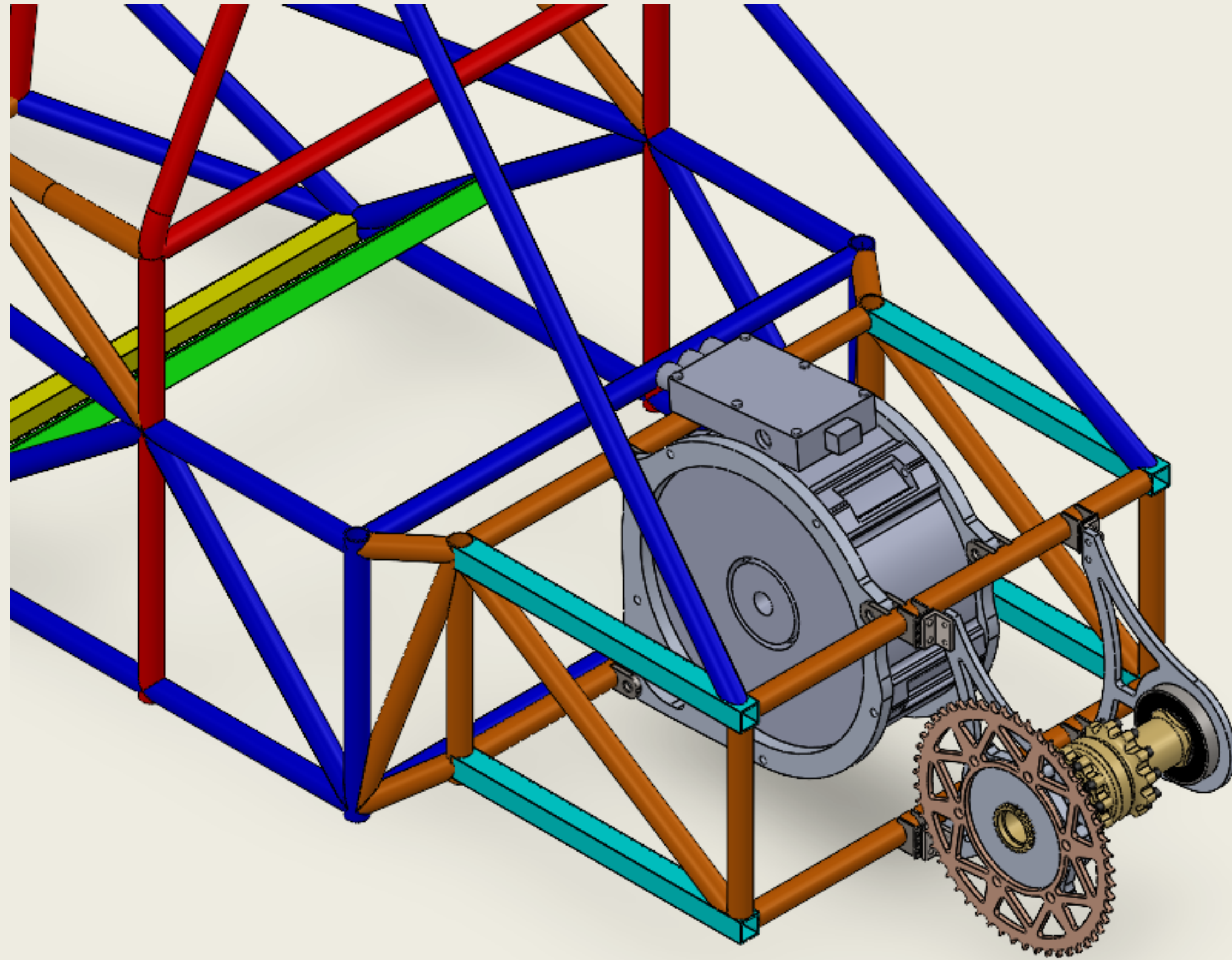
Specially designed for outdoor uses, ideal for long distance wireless data transmission, covering a range of 15km+ , tested in the field.



15km+





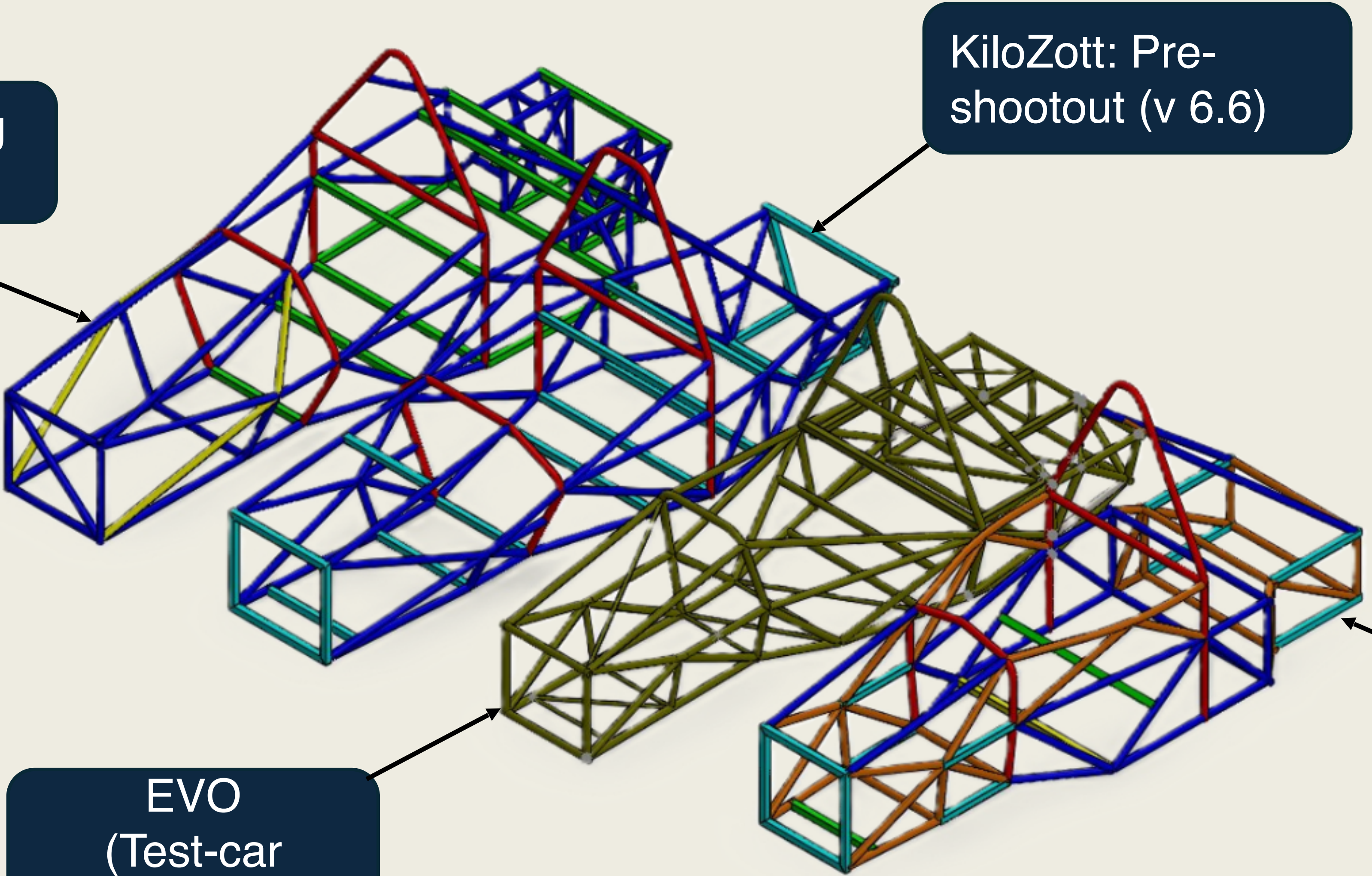


Motor Specifications:

- **Voltage:** 400Vdc
- **Torque:** 352Nm
- **Output:** 62kW continuous | 123kW peak

KiloZott: Spring
2024

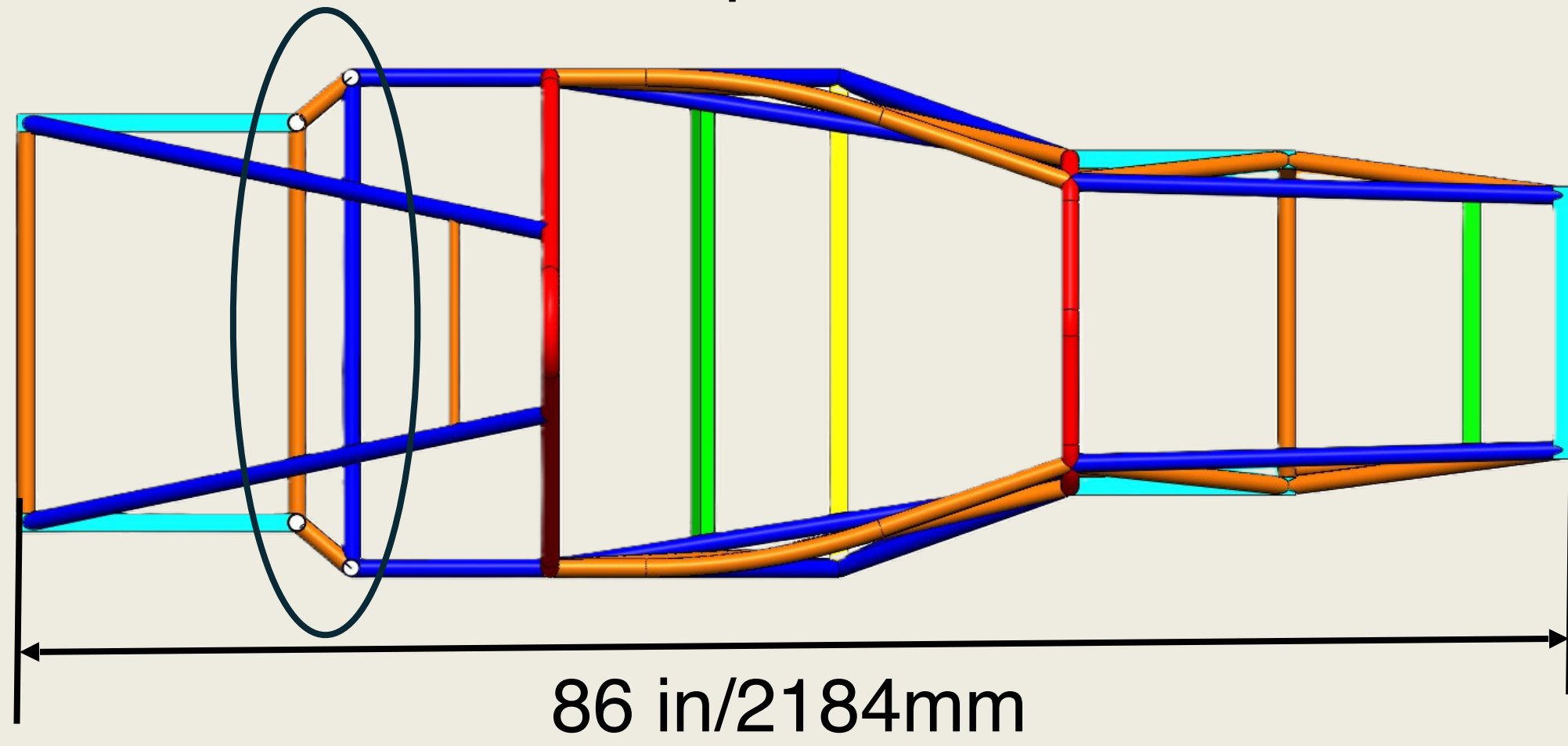
KiloZott: Pre-
shootout (v 6.6)



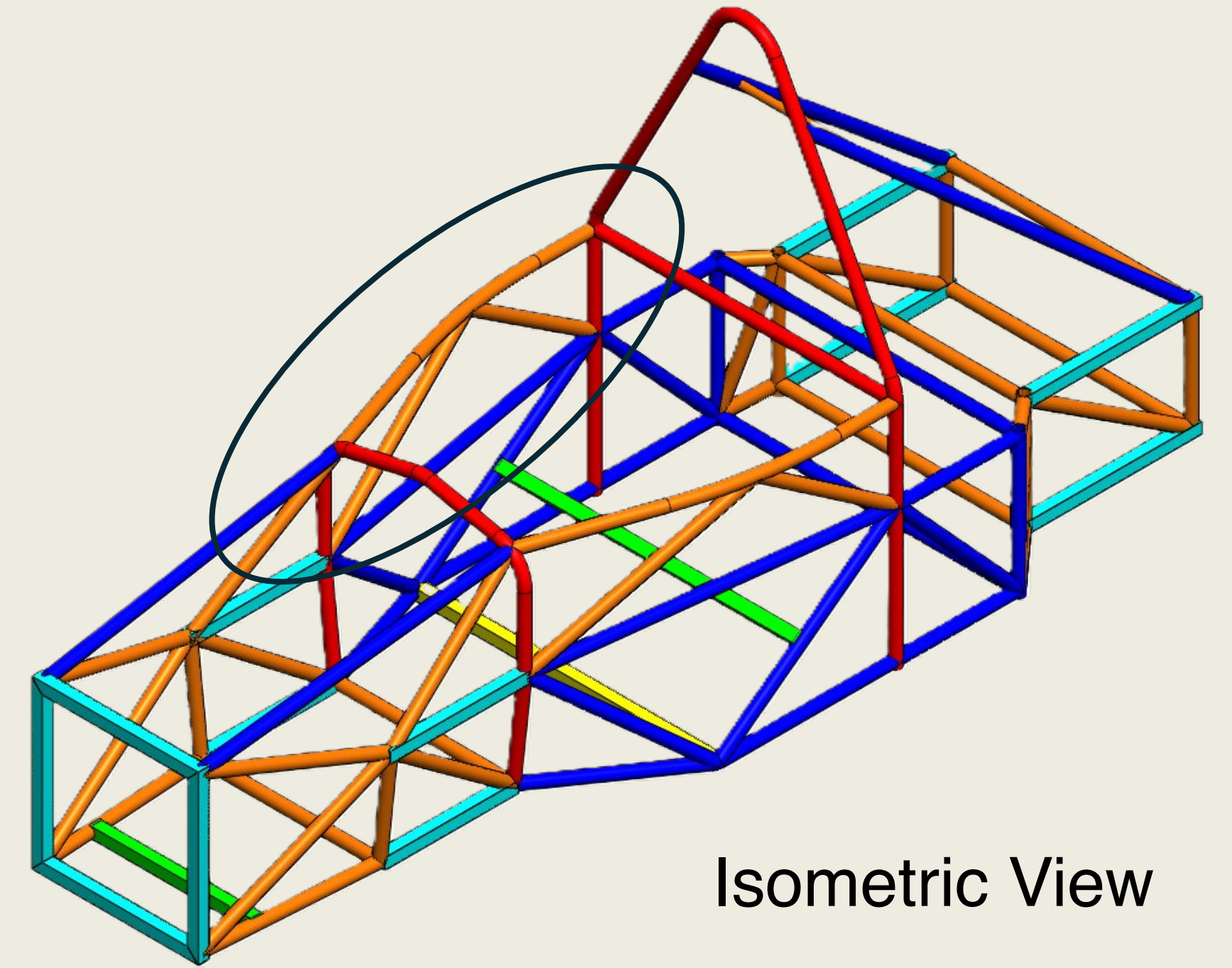
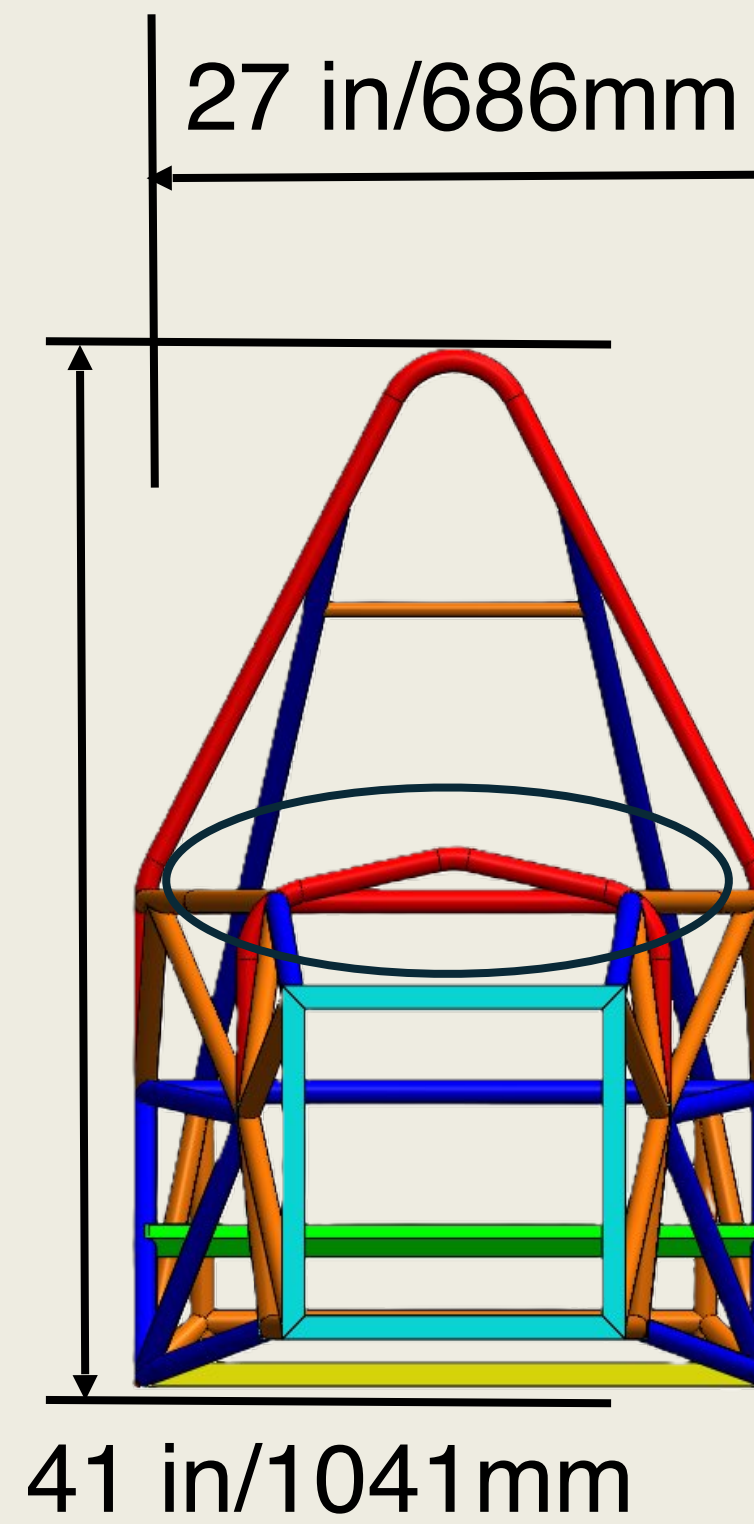
EVO
(Test-car
Chassis)

KiloZott:
Present
Day (v7.0)

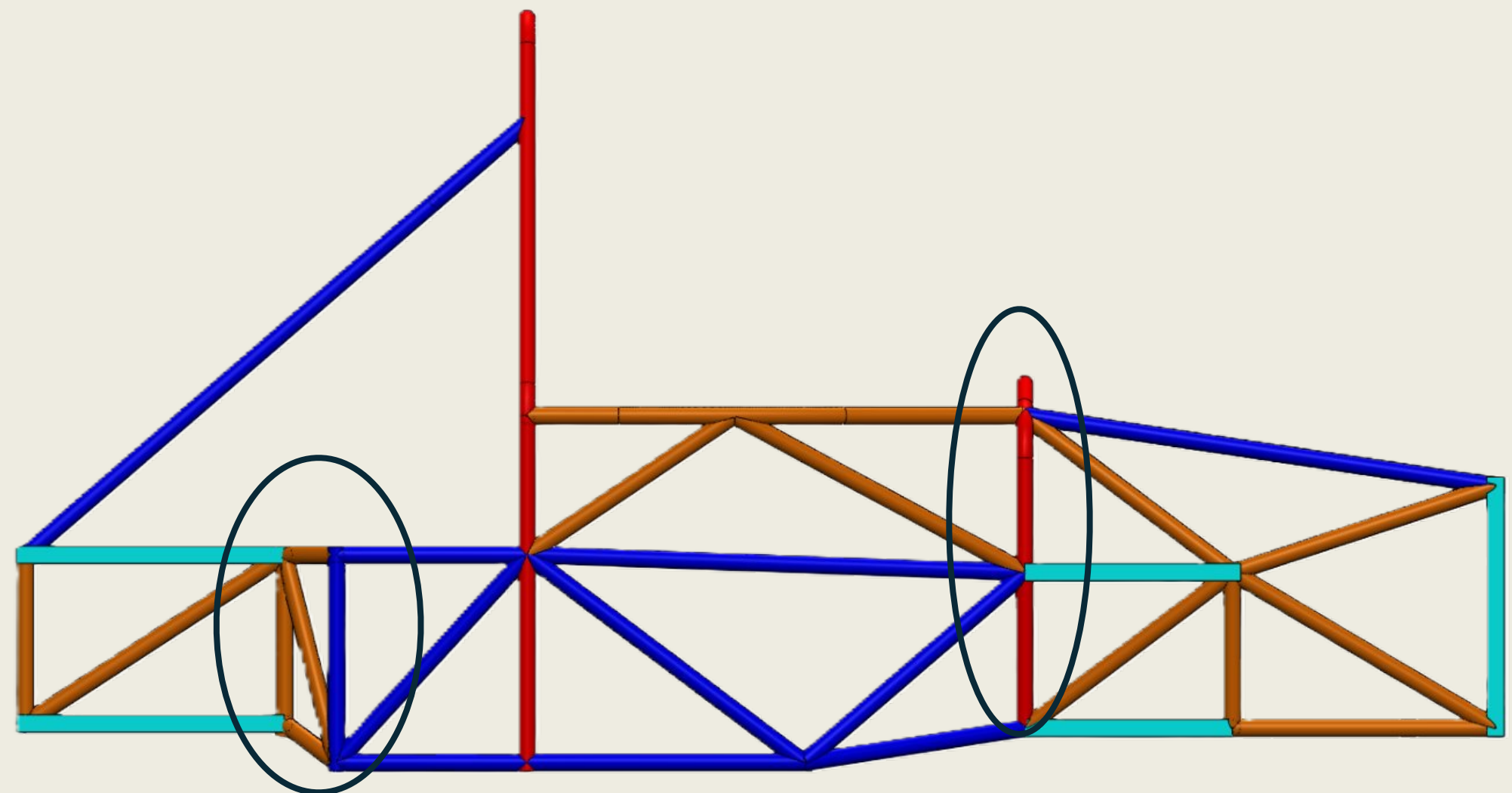
Top View



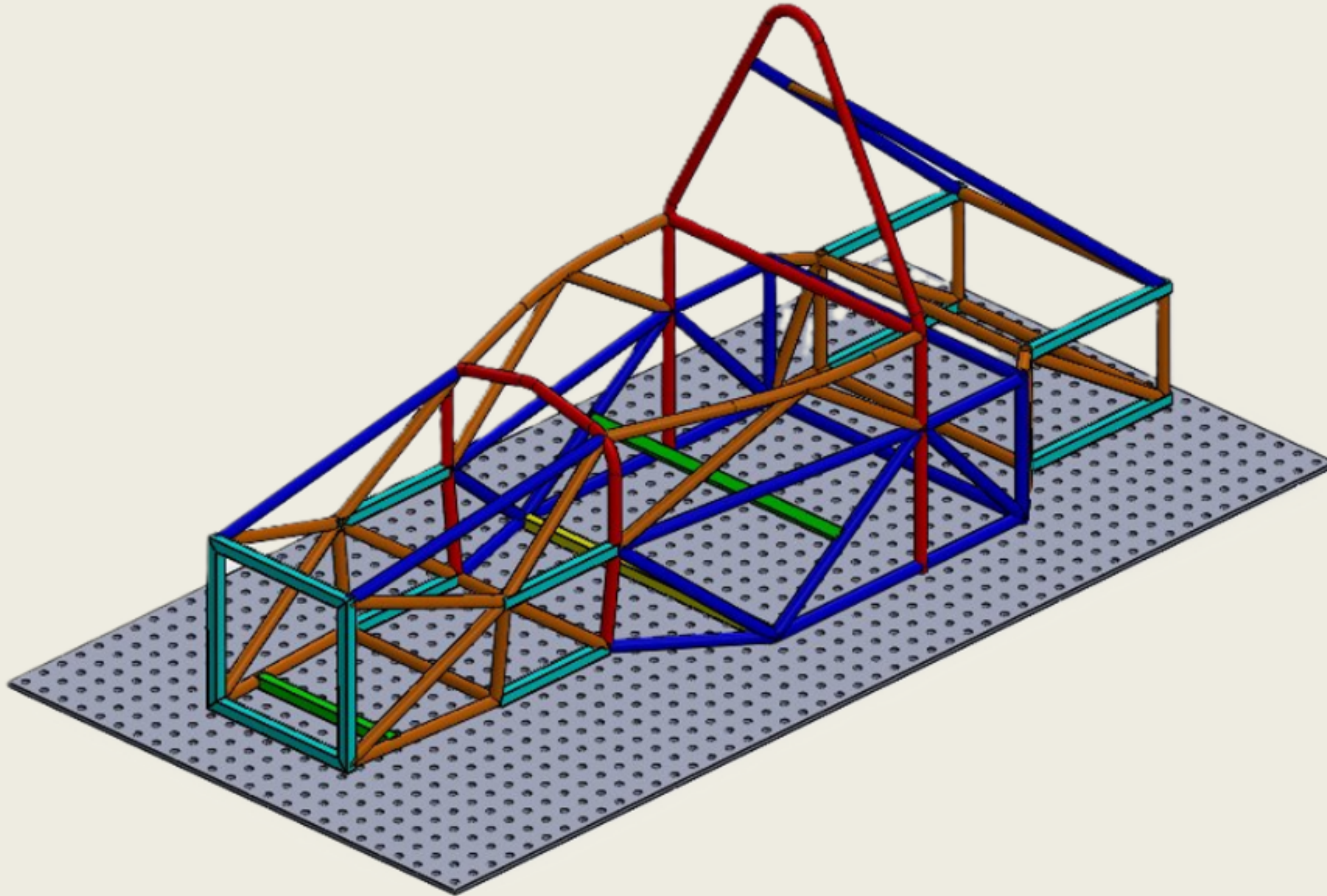
Front View

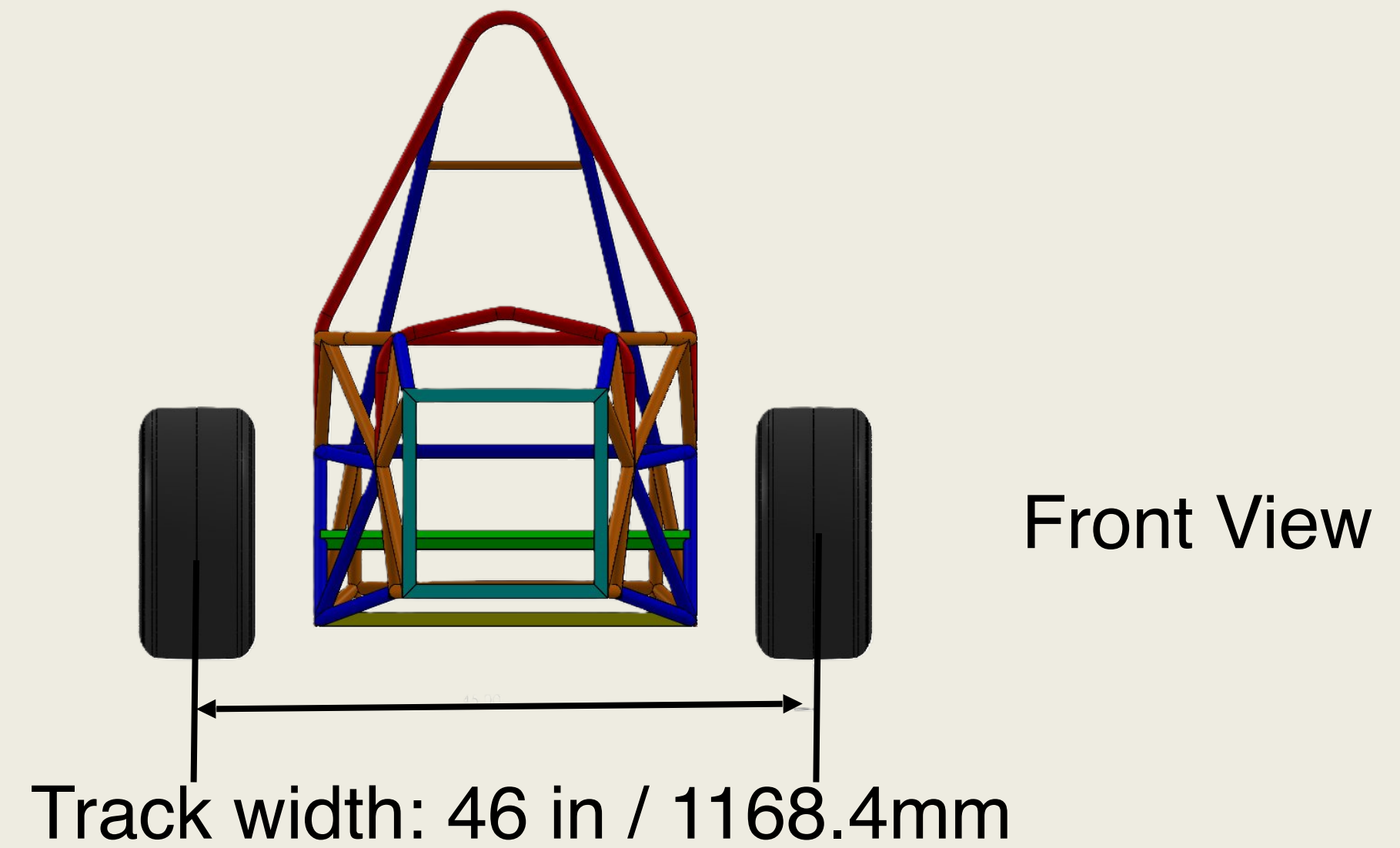
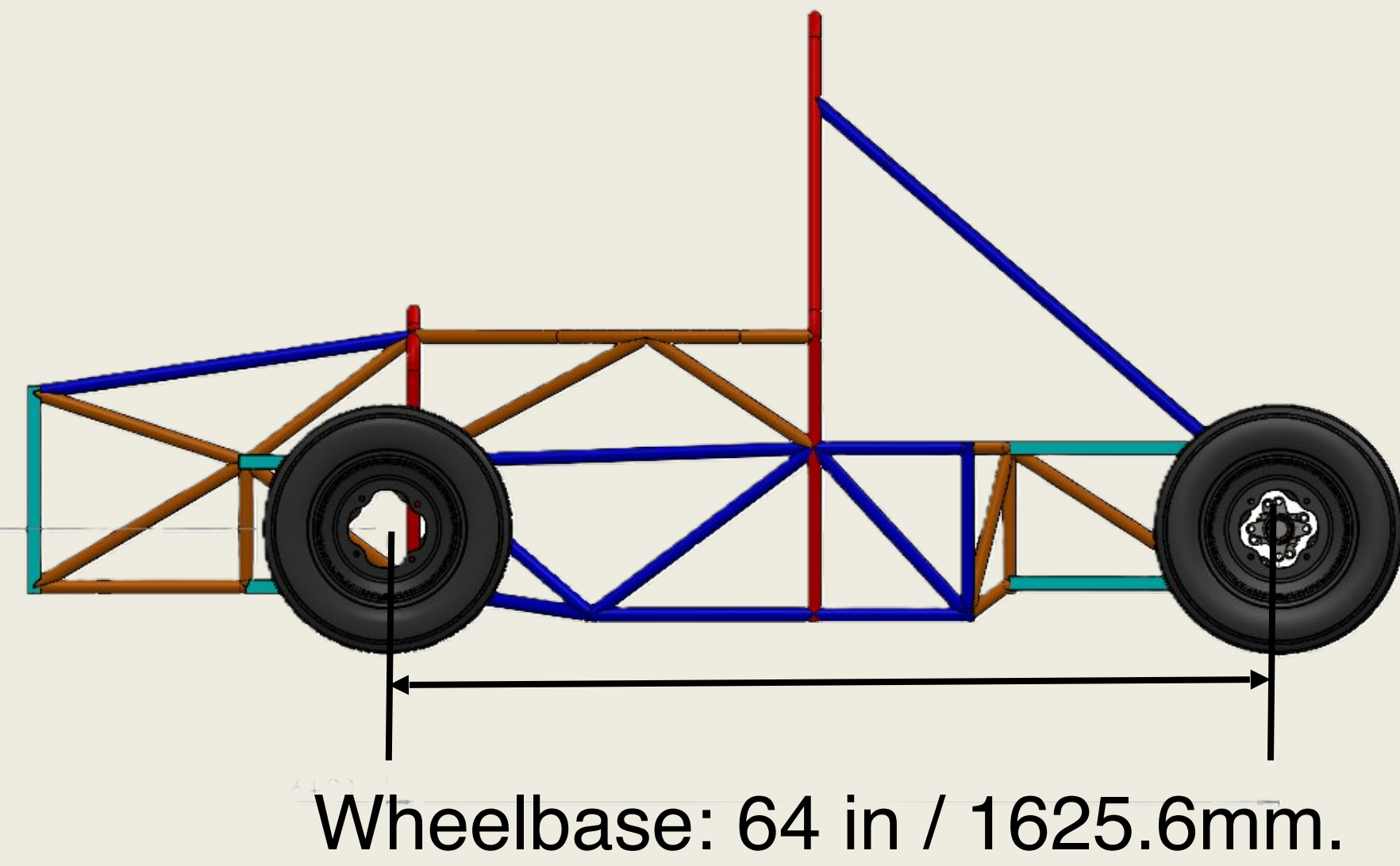
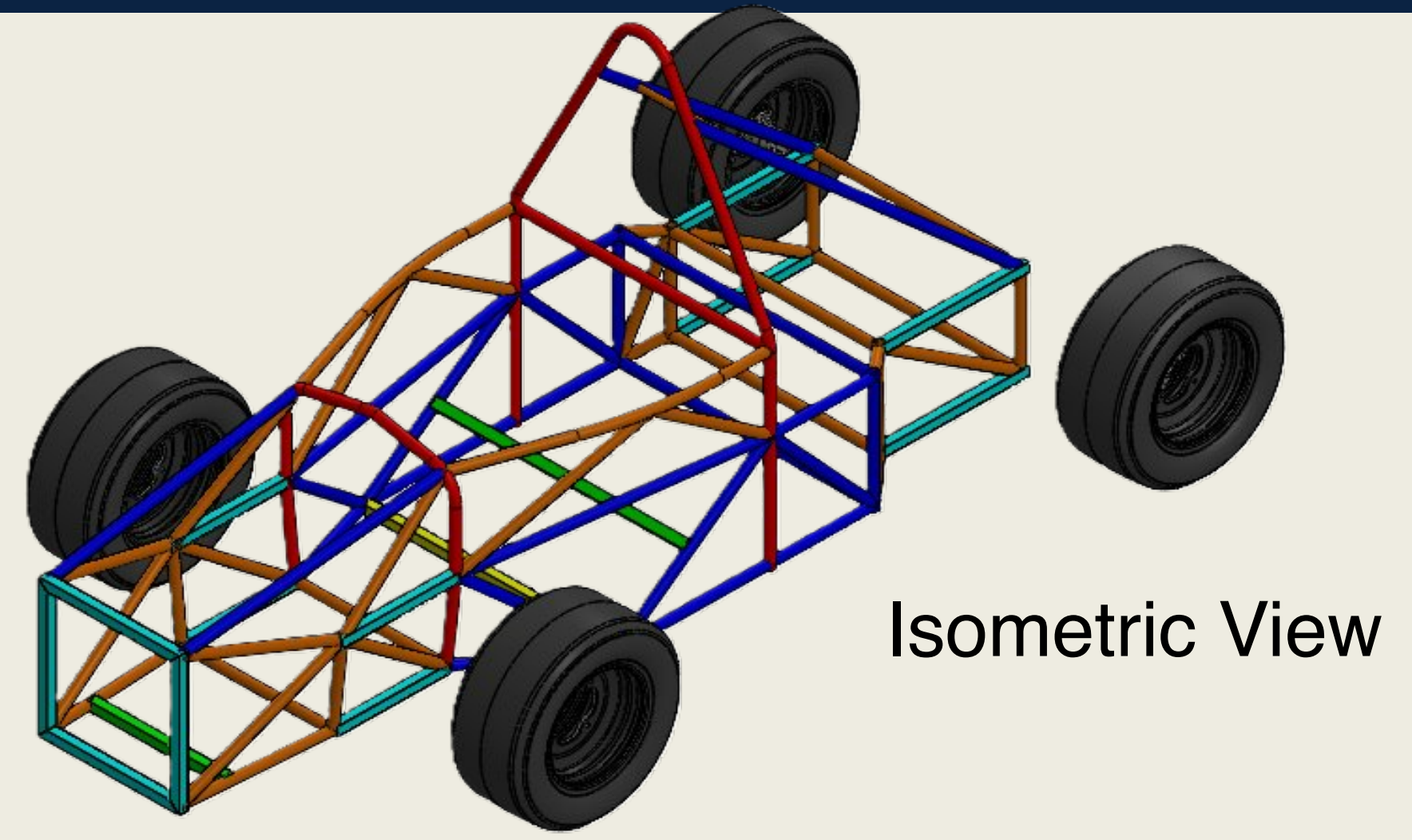
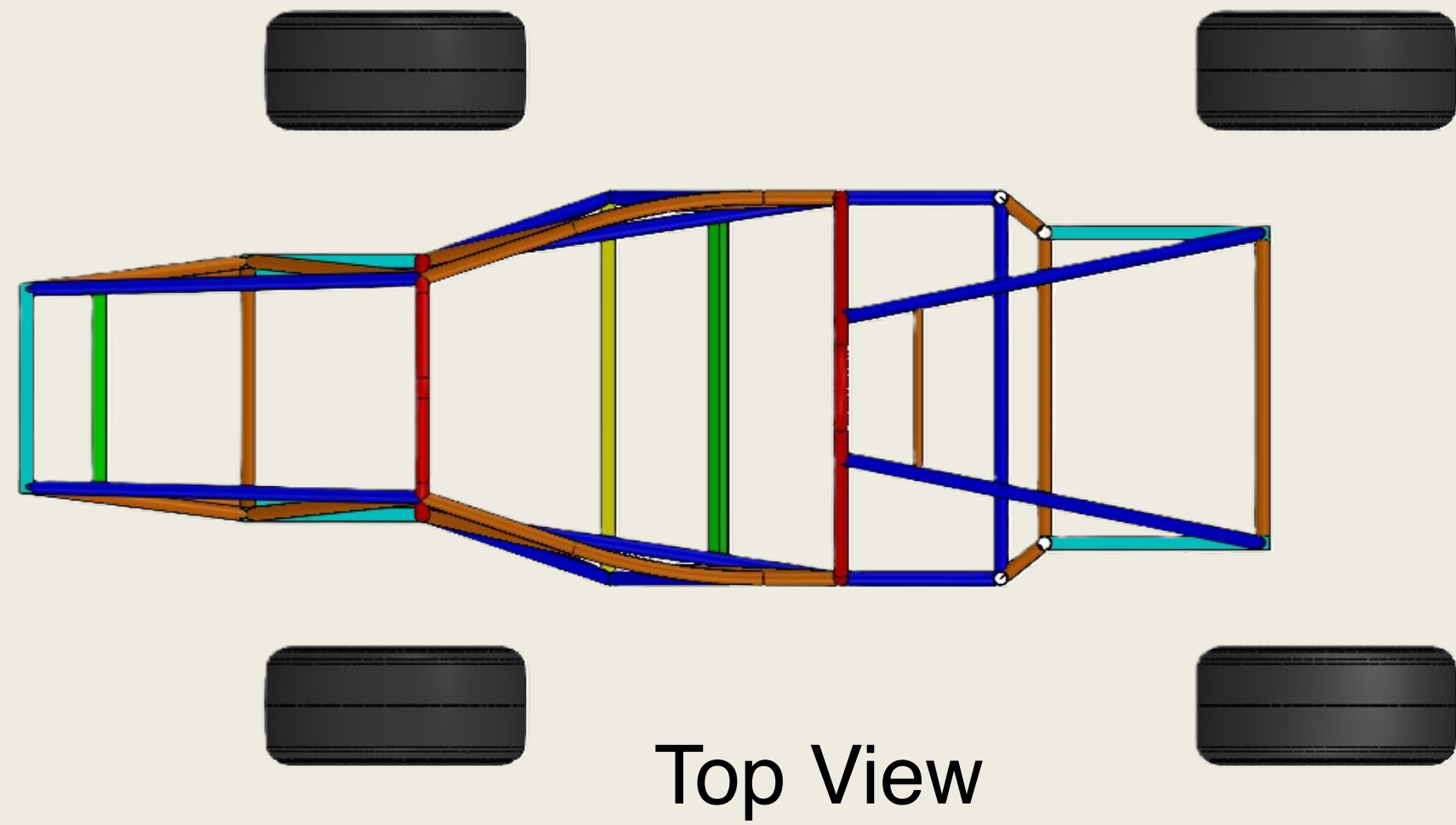


Side View

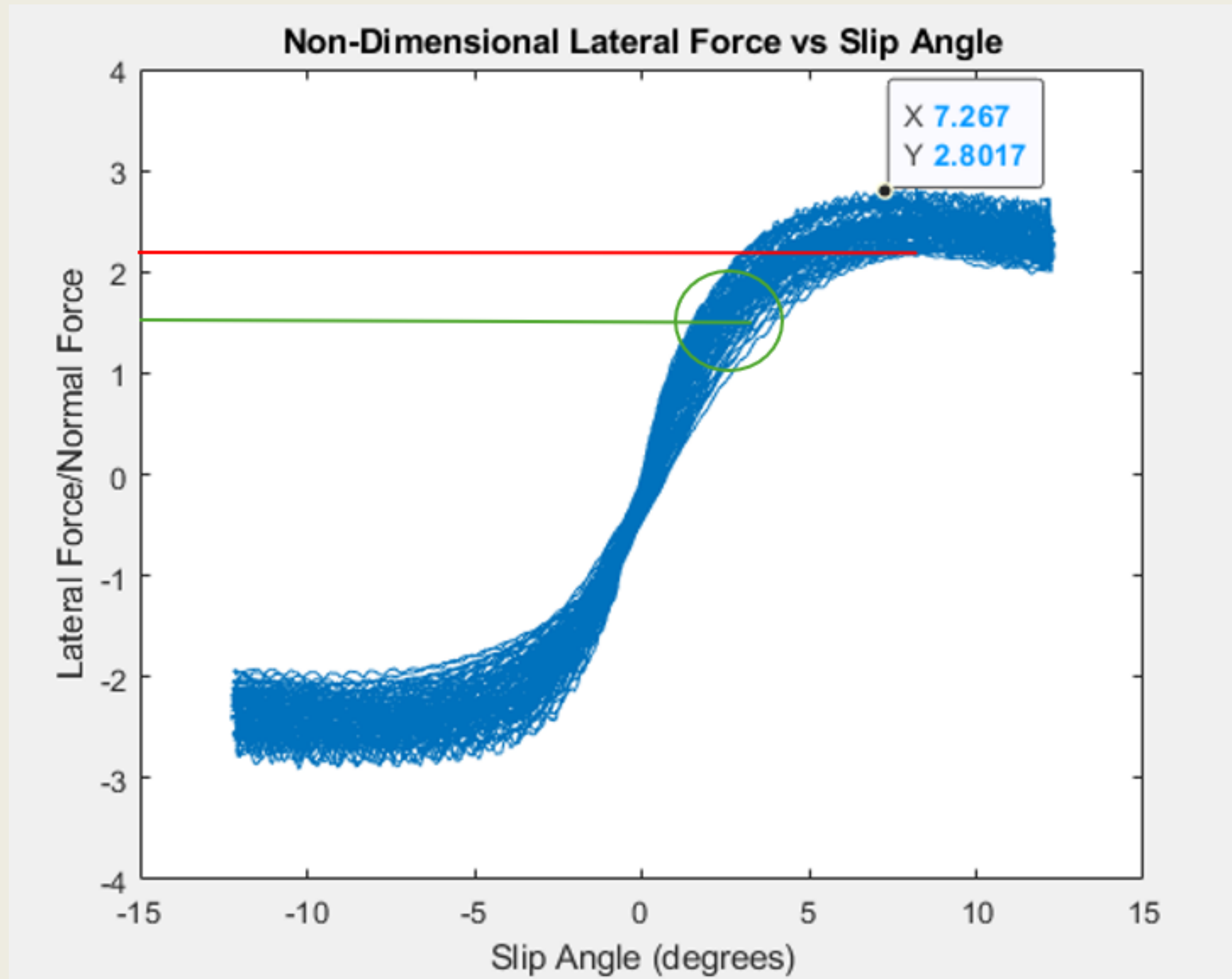


Chassis: Fabrication





Right View



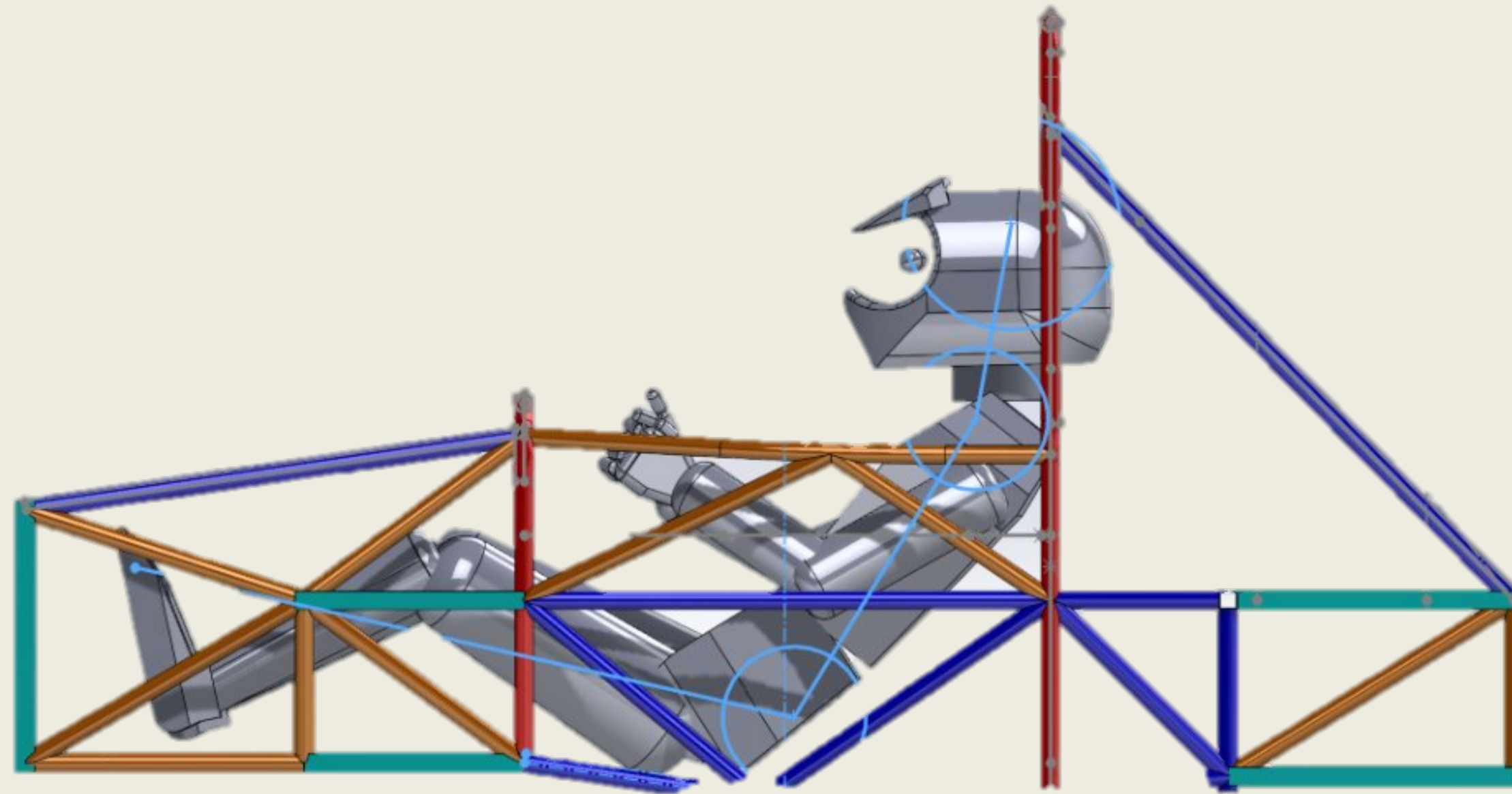


Figure 1: Driver position in KZ Refit

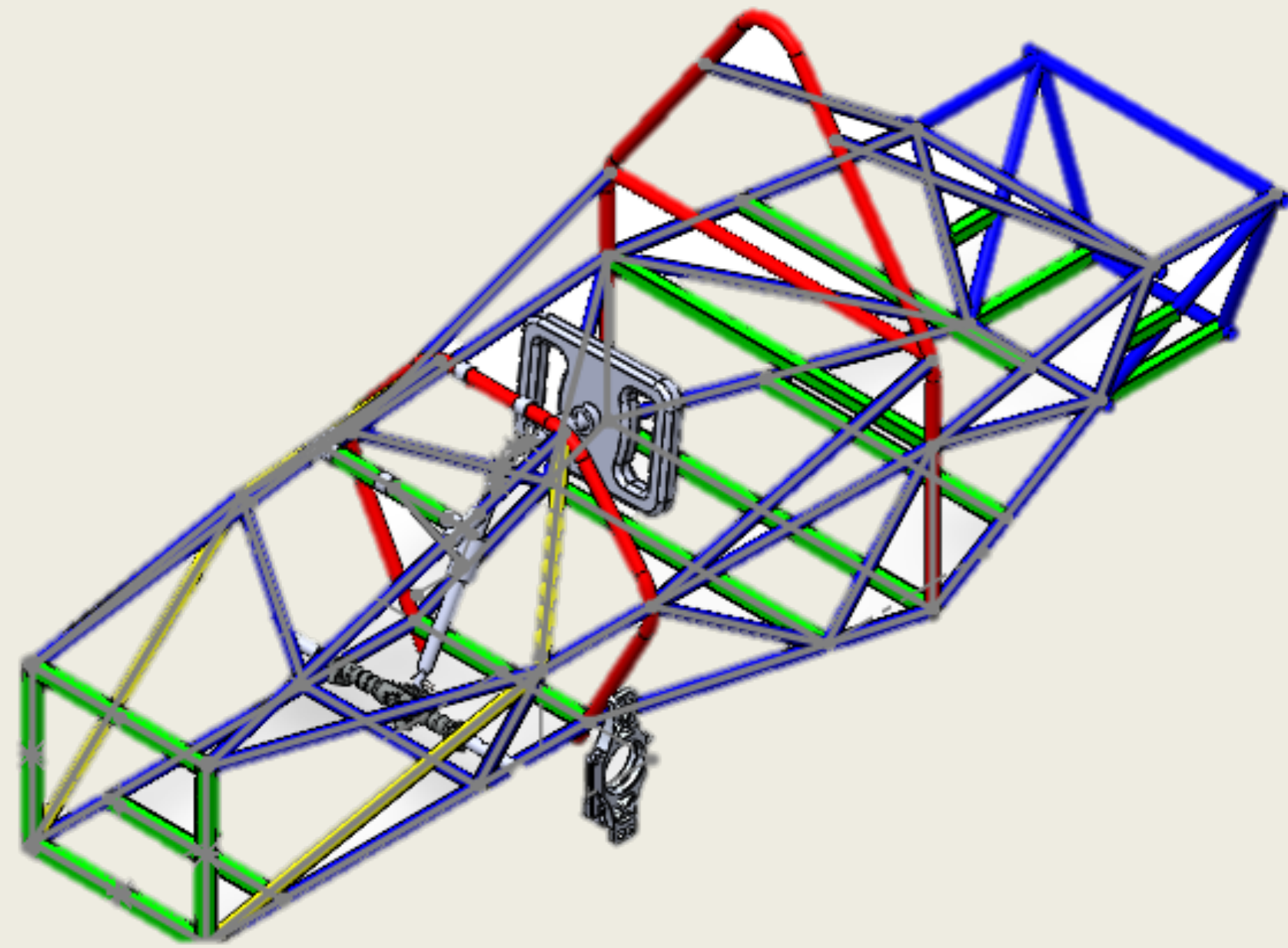


Figure 1: Steering system mounted on V6.4 Chassis

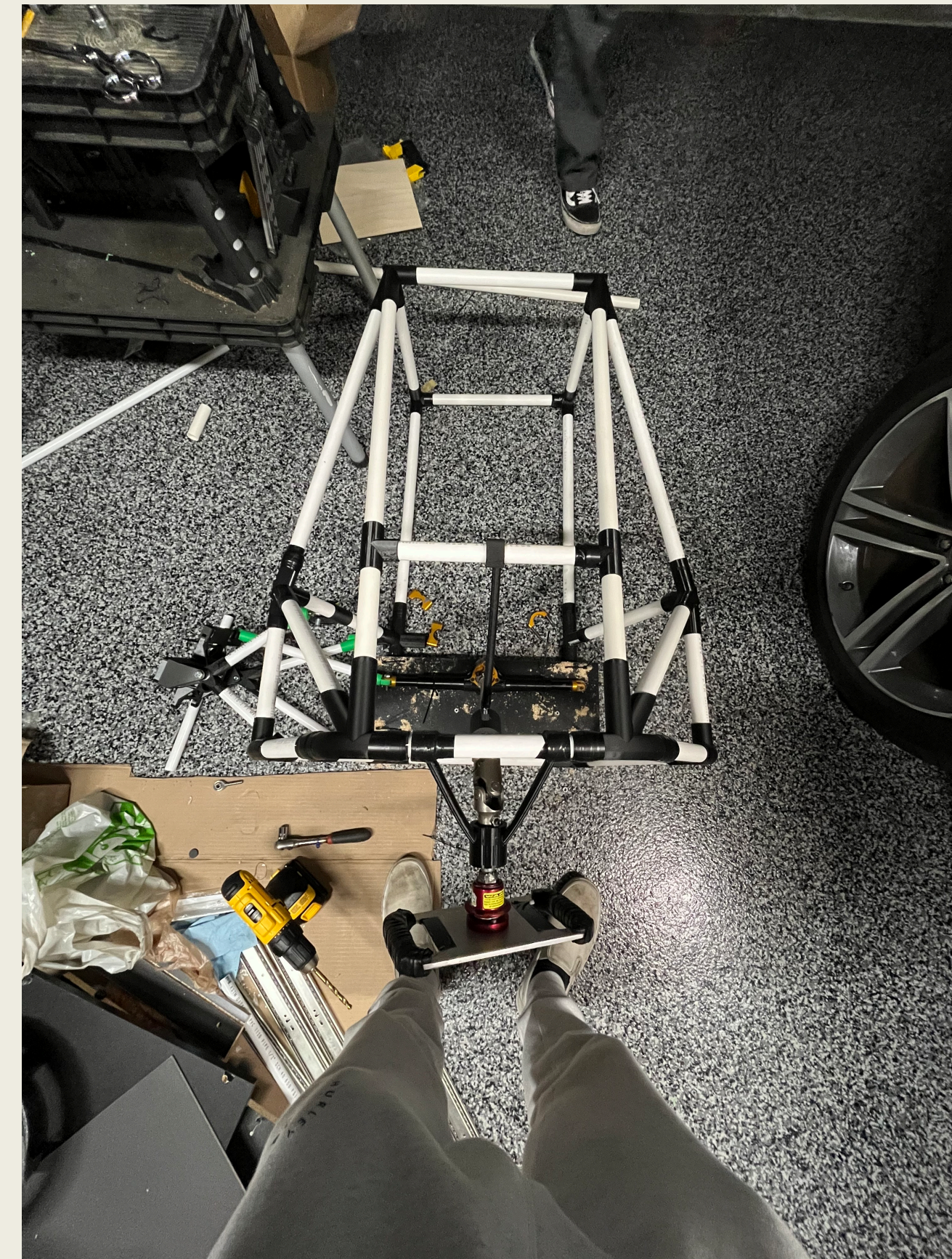
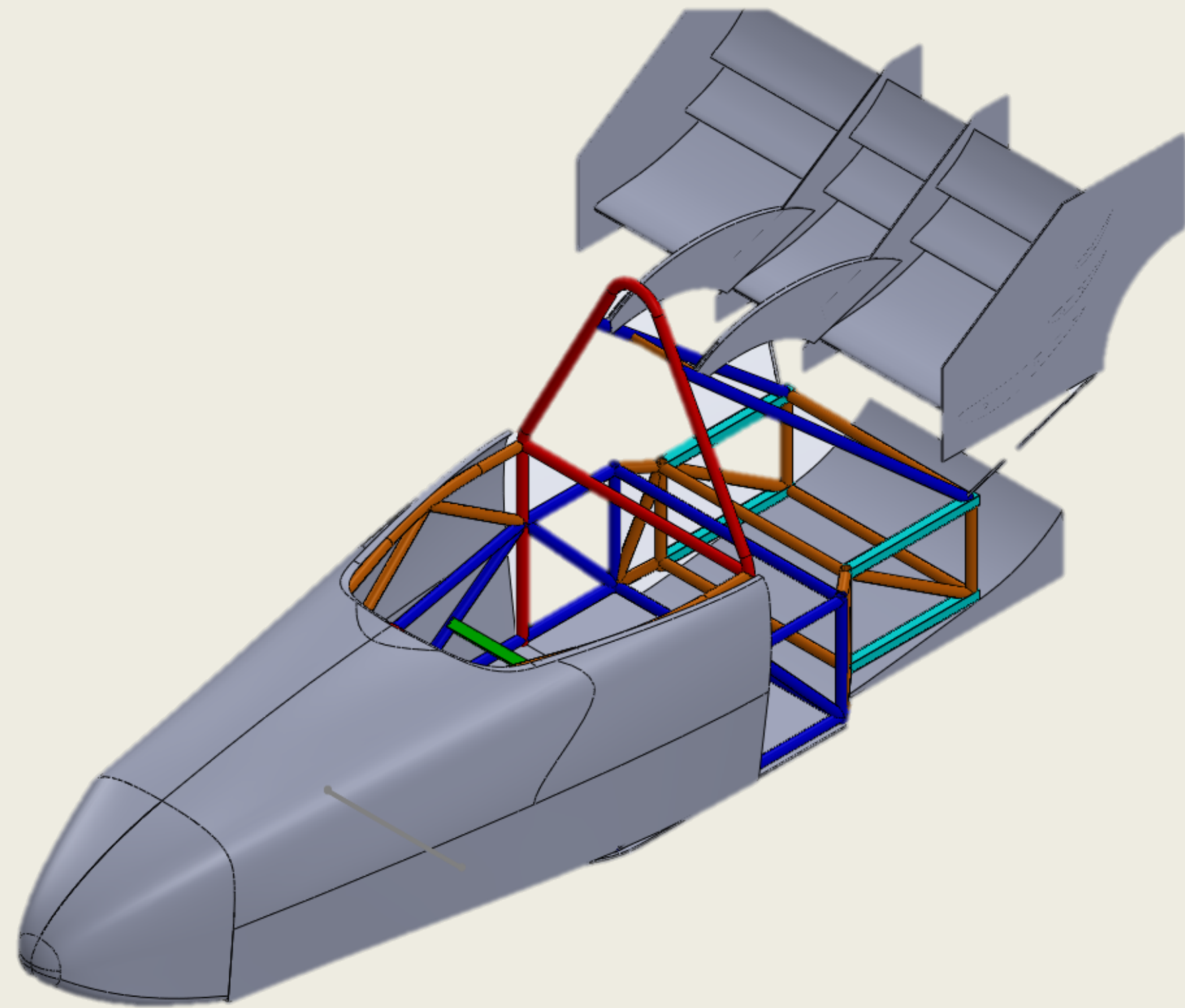
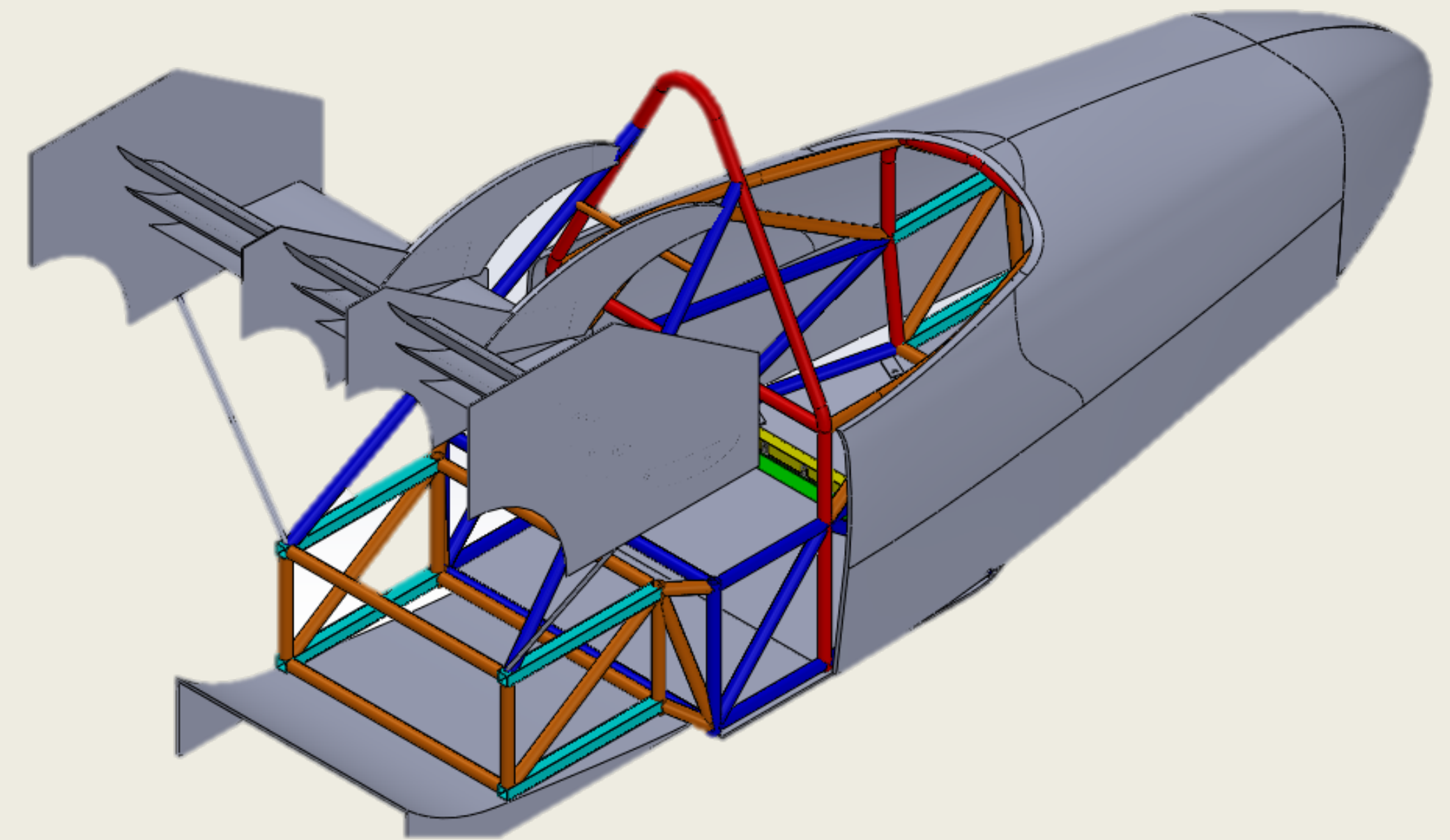


Figure 2: 1:1 Steering system mounted on V6.4 Chassis Prototype

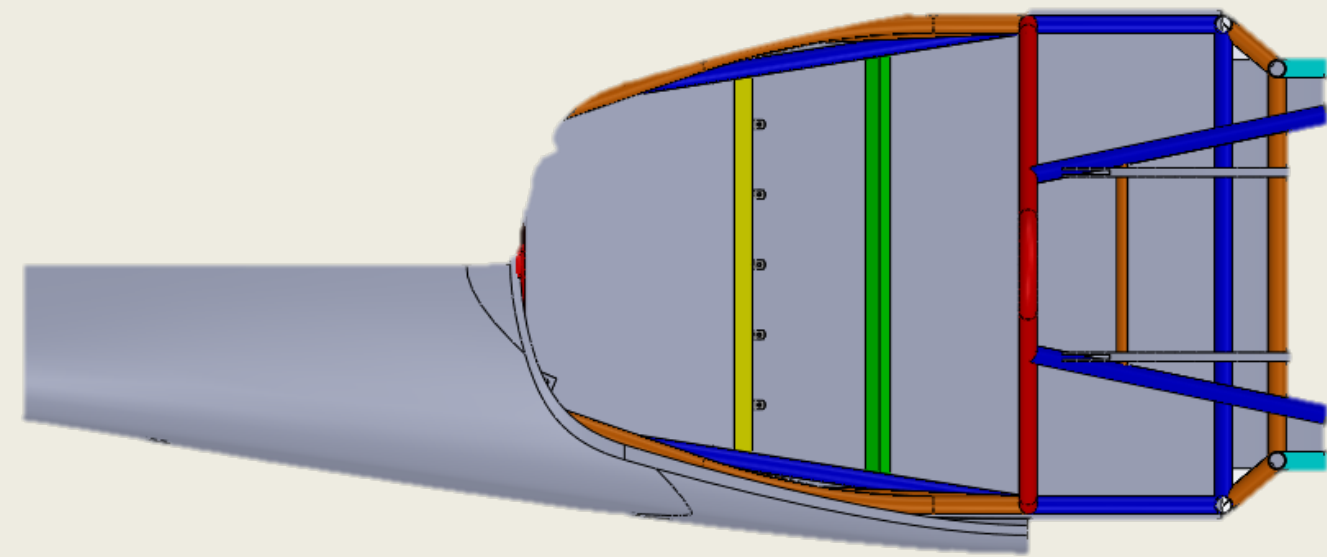


ISO Front

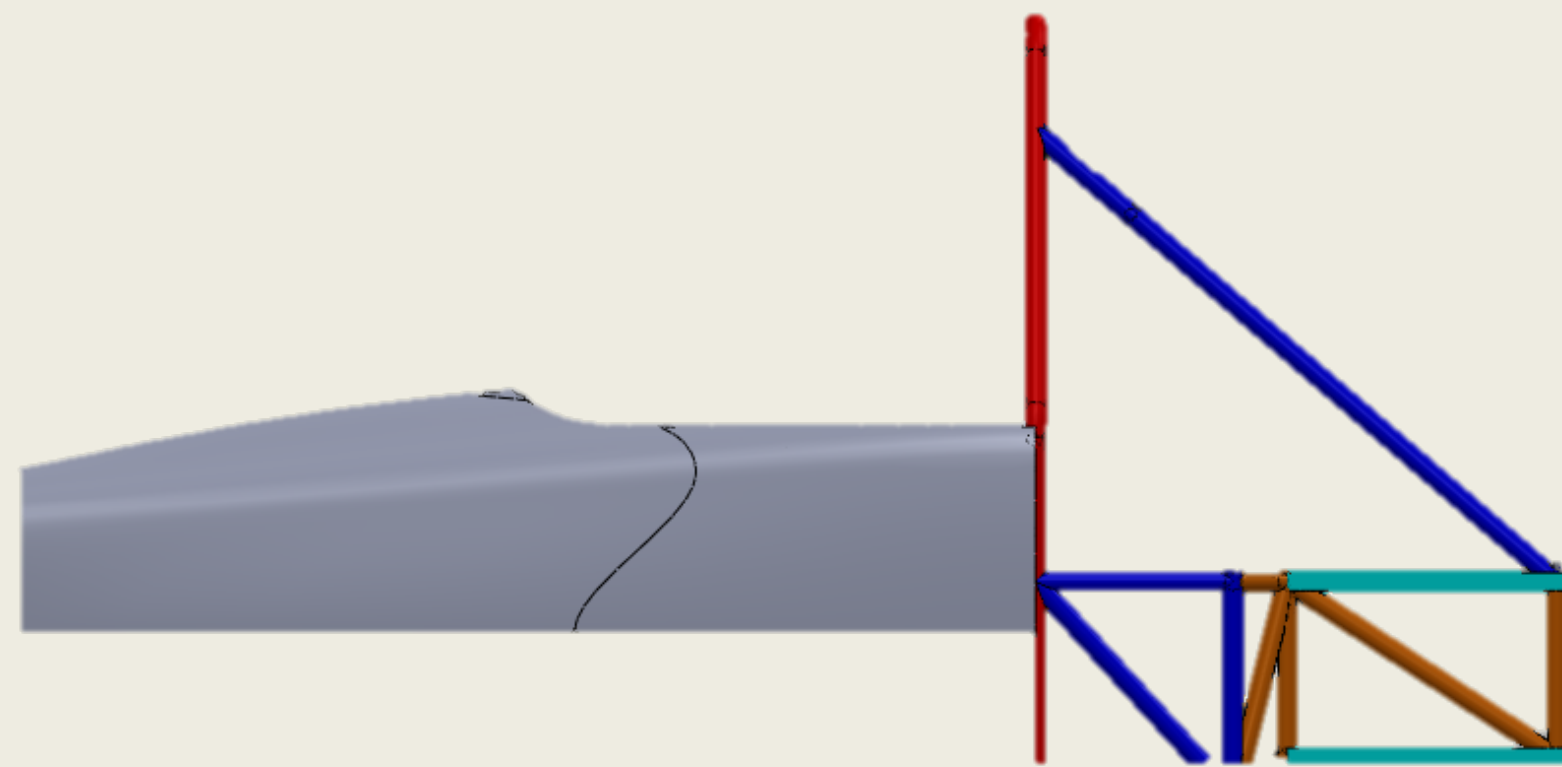


ISO Rear

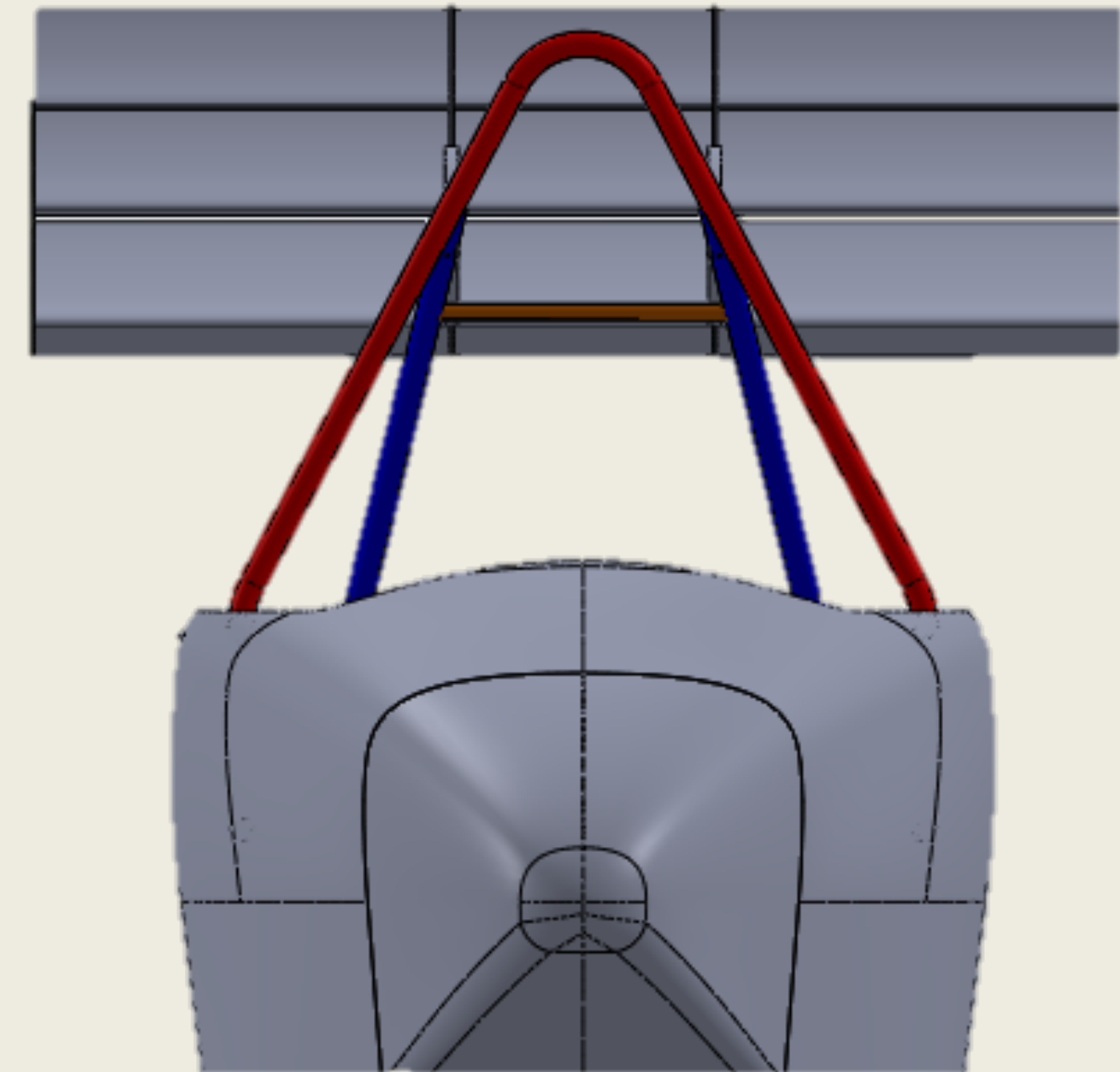
Aero-body v2, Chassis v7



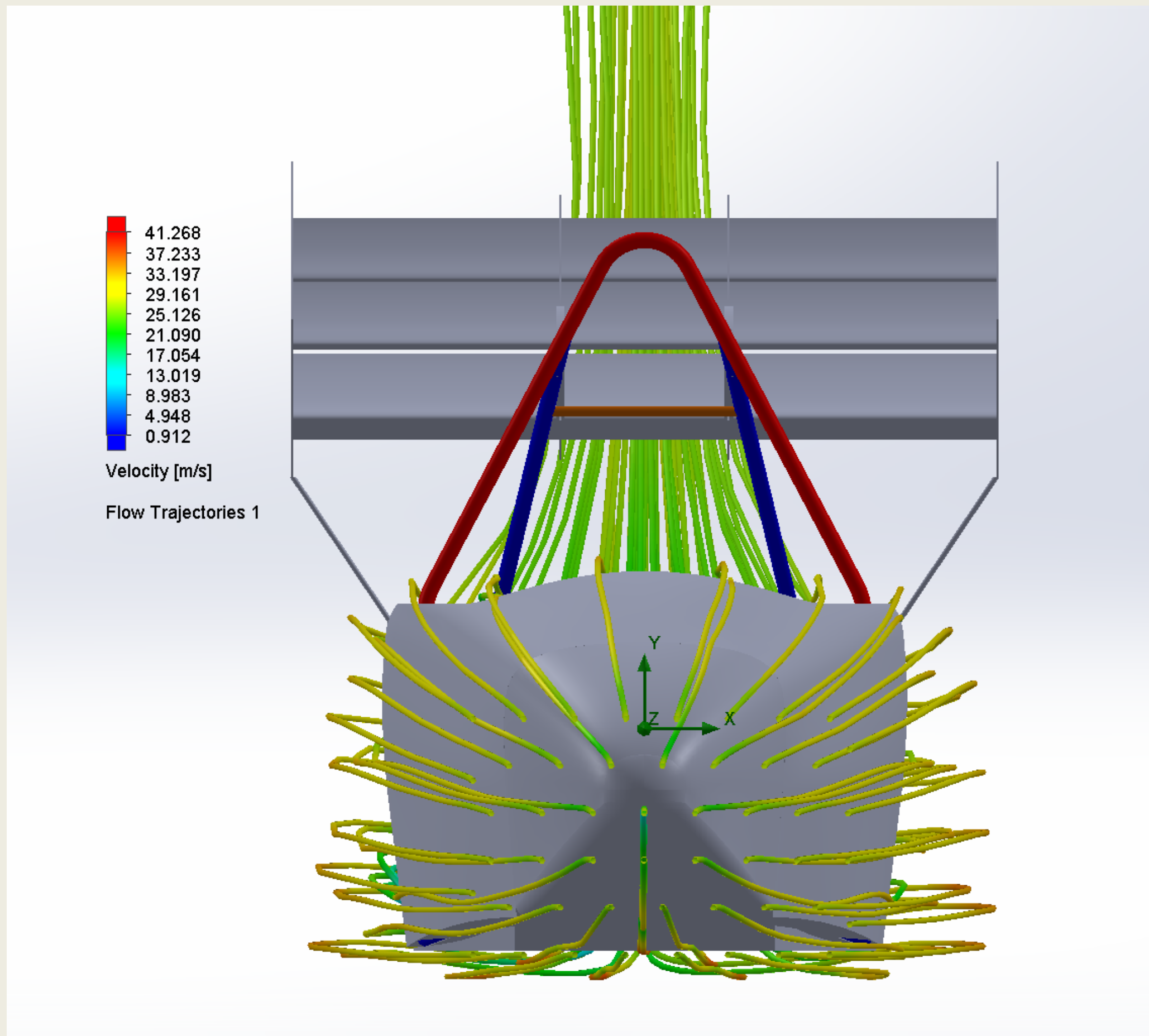
Top



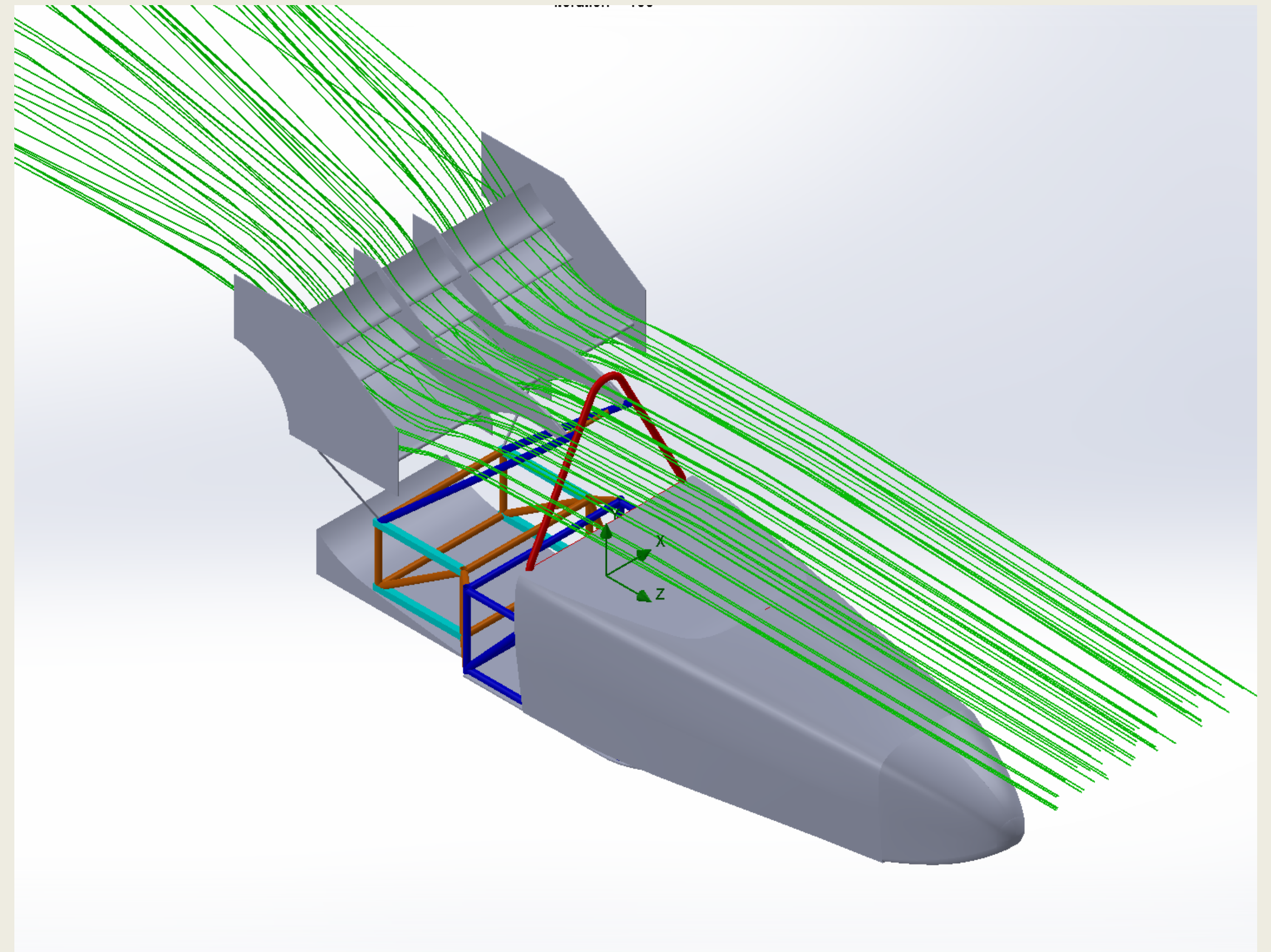
Side



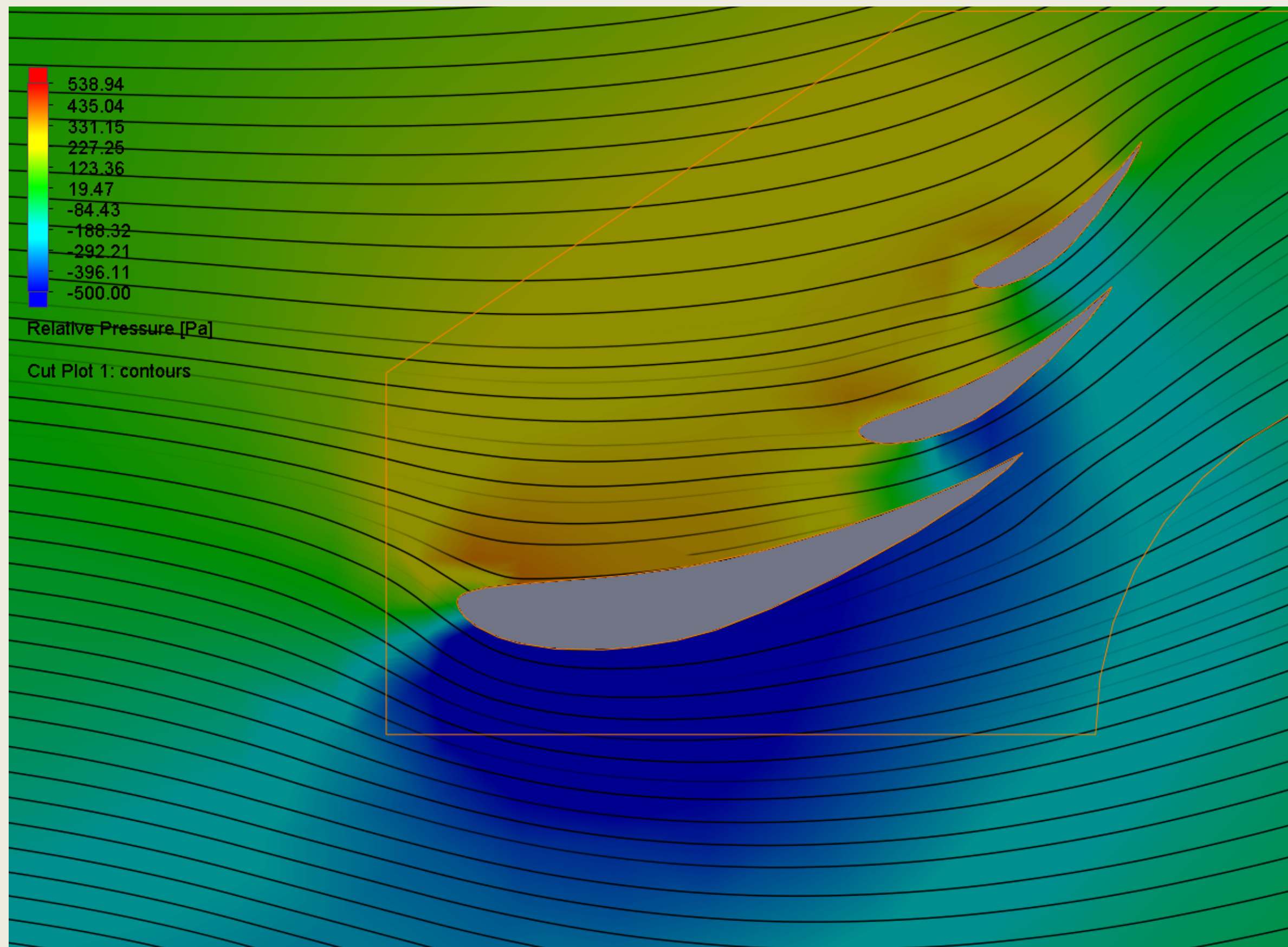
Front



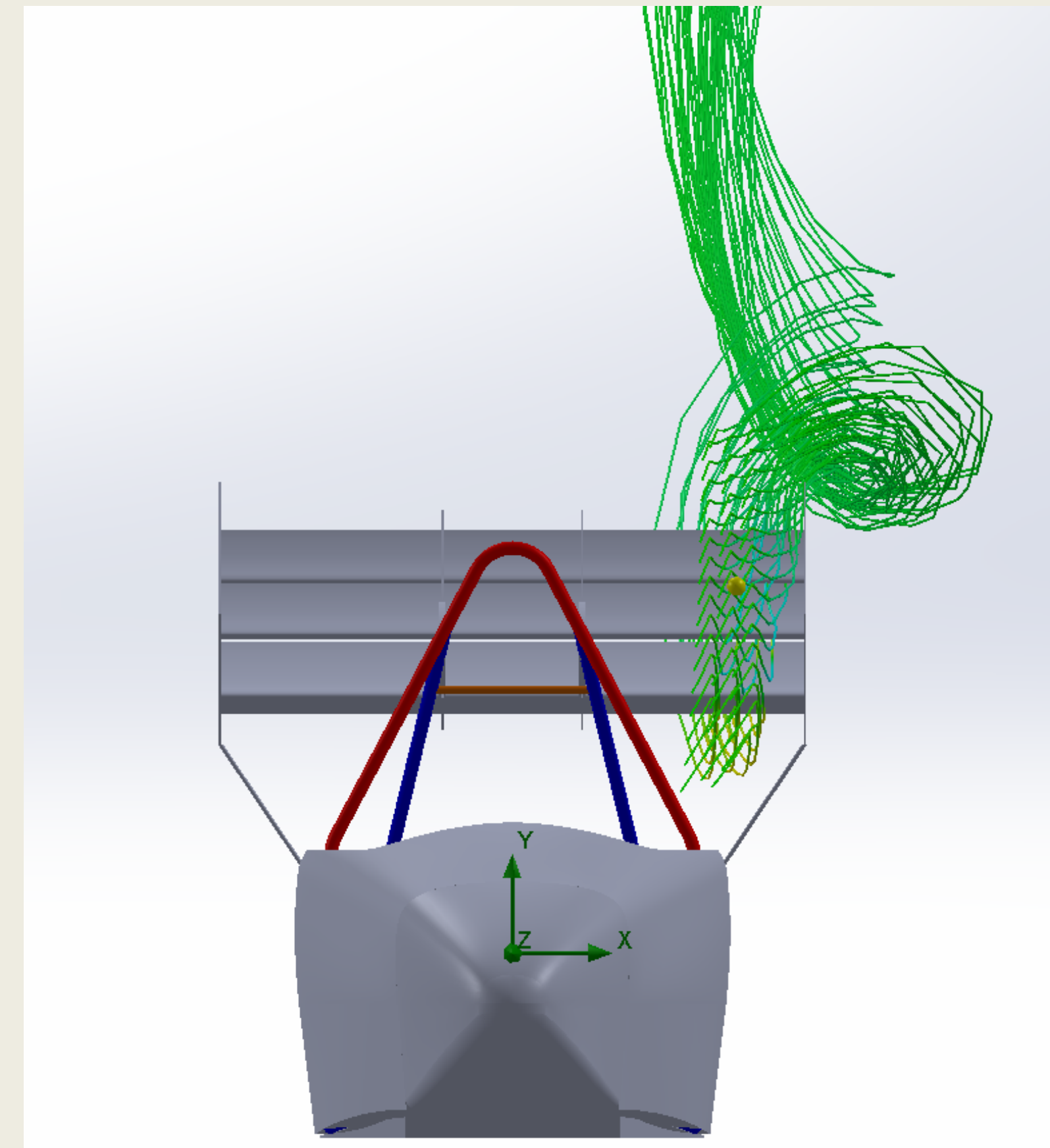
Front
Laminar flow around body
(Good)



ISO
Clean freestream to Rear wing
(Good)



Side - Rear wing – Relative pressure
(Unoptimized airfoil configuration)



Side - Rear wing – Flow trajectory
(Endplates too small)

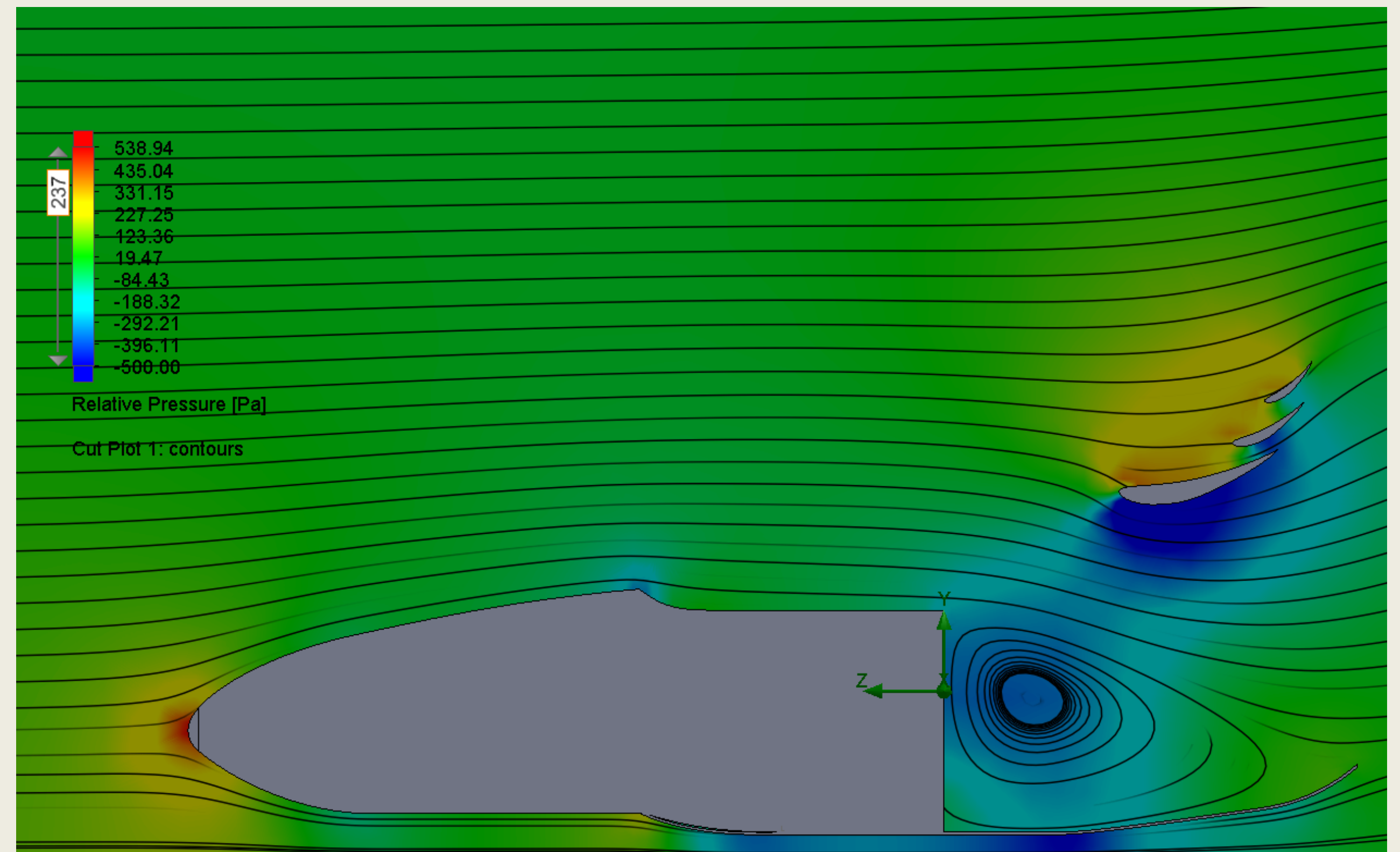
Target total downforce: 1500N @ 100 km/h

Preliminary total downforce: 864N @ 100km/h

- CD: 0.38 (Inapplicable)
- CL: 0.69 (62% of target)

Results disclaimer:

- Missing front wing, sidepods = less lift
- Empty interior = more drag



Side
(Relative pressure)

Updates:

- ZotFunder
- Updated sponsor packet for 2025 season
- Increased social media activity

Next Quarter:

- Winter recruitment
- Website restructuring
- Event planning
- More outreach

UCI ZotFunder

Anteater Electric Racing 2024-2025

Share to Maximize IMPACT

f X in

ZotFunder
Page

UCI Samueli School of Engineering | ANTEATER ELECTRIC RACING

SPONSOR TIER BREAKDOWN

	PARTNER \$1,000+	SILVER \$2,000+	GOLD \$3,500+	PLATINUM \$5,000+	TITLE \$10,000+
ADDITION TO WEBSITE SPONSOR WALL	✓	✓			
SOCIAL MEDIA SHOUTOUT*	✓	✓			
LOGO ON CAR**	✓	✓			
LOGO ON TEAM WEAR		✓			
RESUME DATABASE ACCESS					
INVITATION TO LAB AND DESIGN FAIR					
COLLABORATION WITH DESIGNERS ON LIVERY FOR CAR					

* social media shoutouts requested by sponsor

2024-2025
SPONSOR PACKET

CHARGE THE FUTURE!

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IRVINE, CA 92697

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EMAIL: ELECTRIC.ANTEATERRACING@GMAIL.COM

Updated Sponsor
Packet