

First Alias Speedform Racecar

Dominique Müller & Patrick Zimbrod

Elefant Racing e.V.

Universität Bayreuth

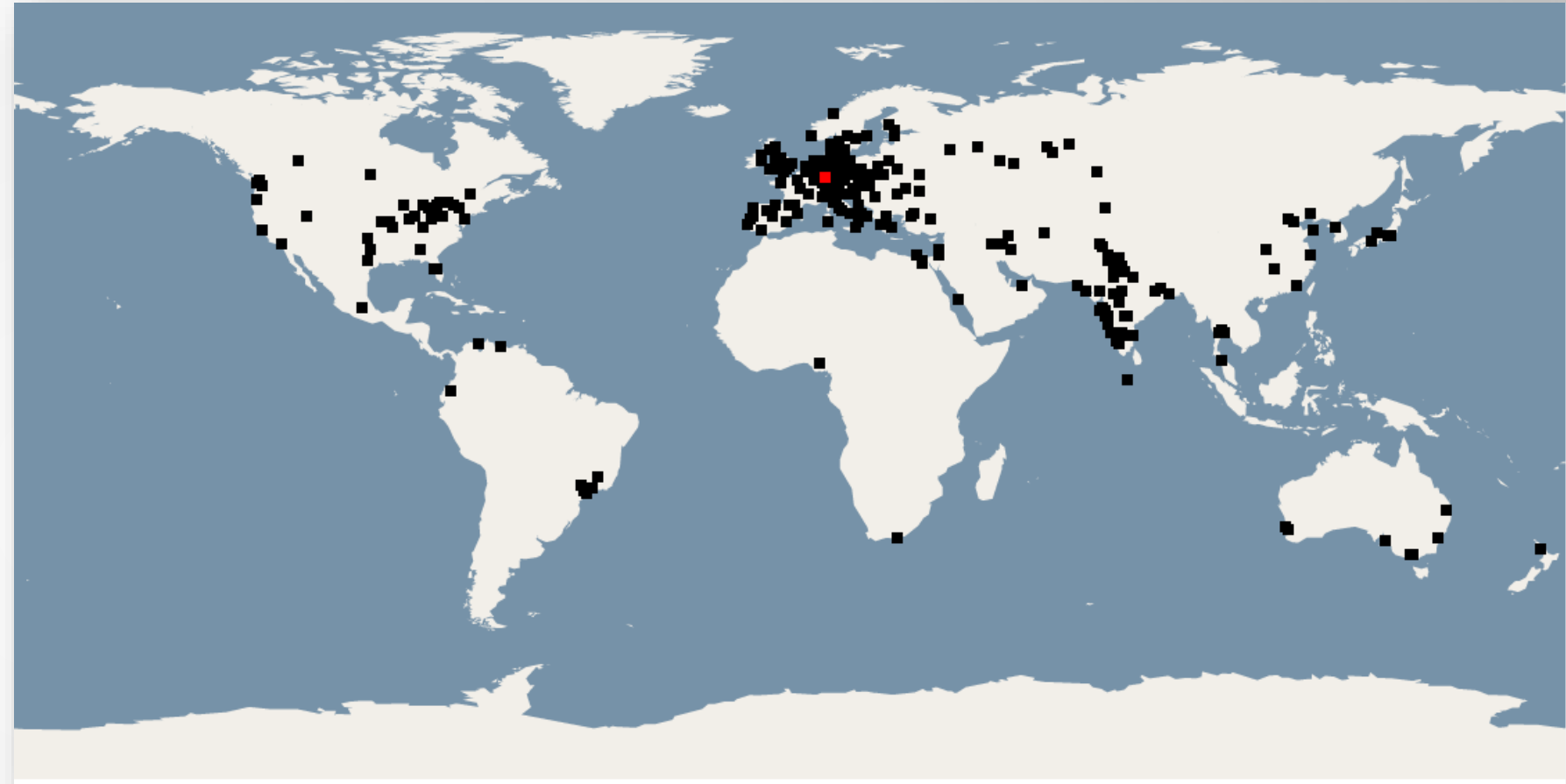
Formula Student



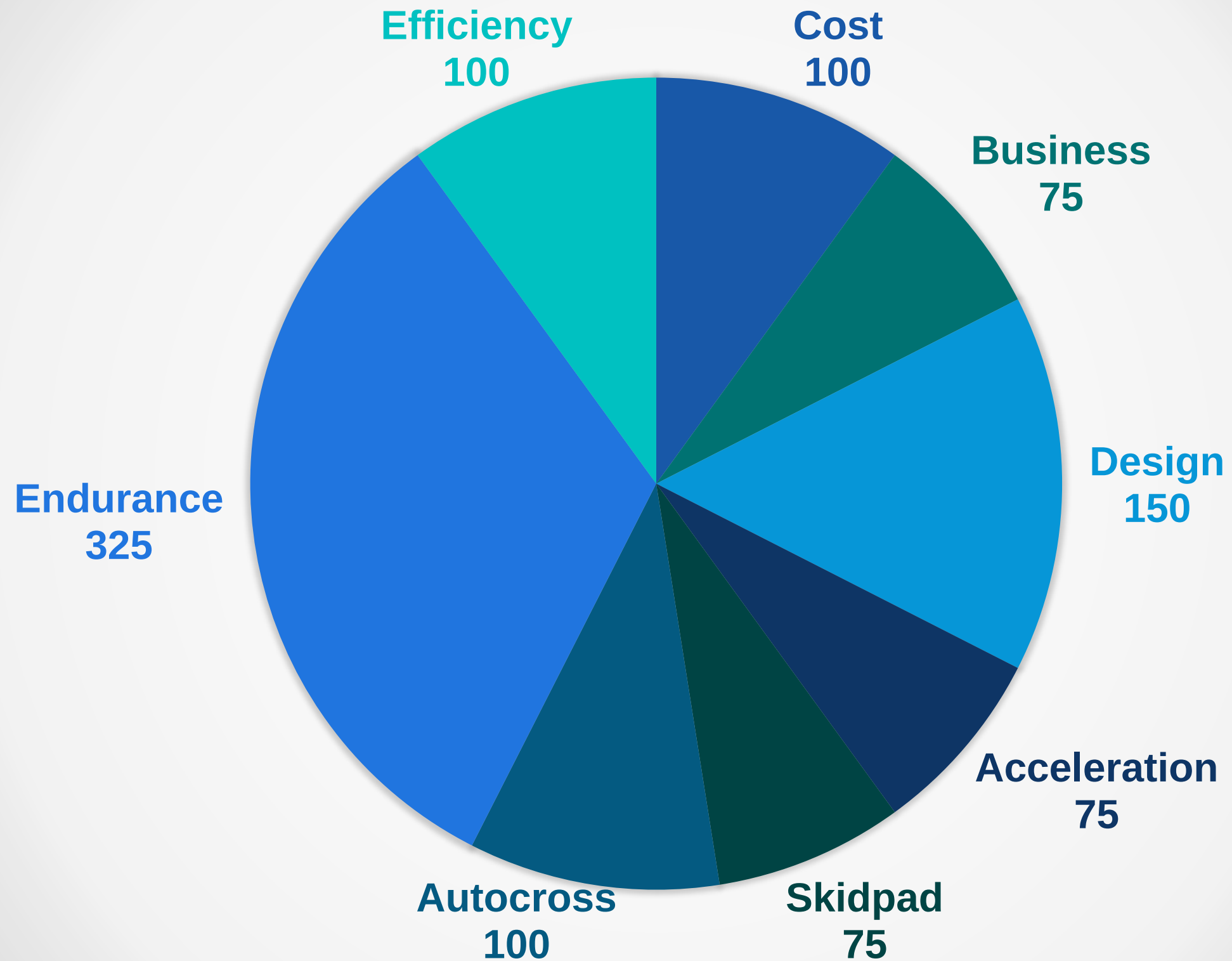
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Formula Student

- Internationaler Konstruktionswettbewerb für Studenten
- Ca. 700 Teams aus aller Welt
- Weltweite Austragungsorte



Formula Student



Elefant Racing

Elefant Racing

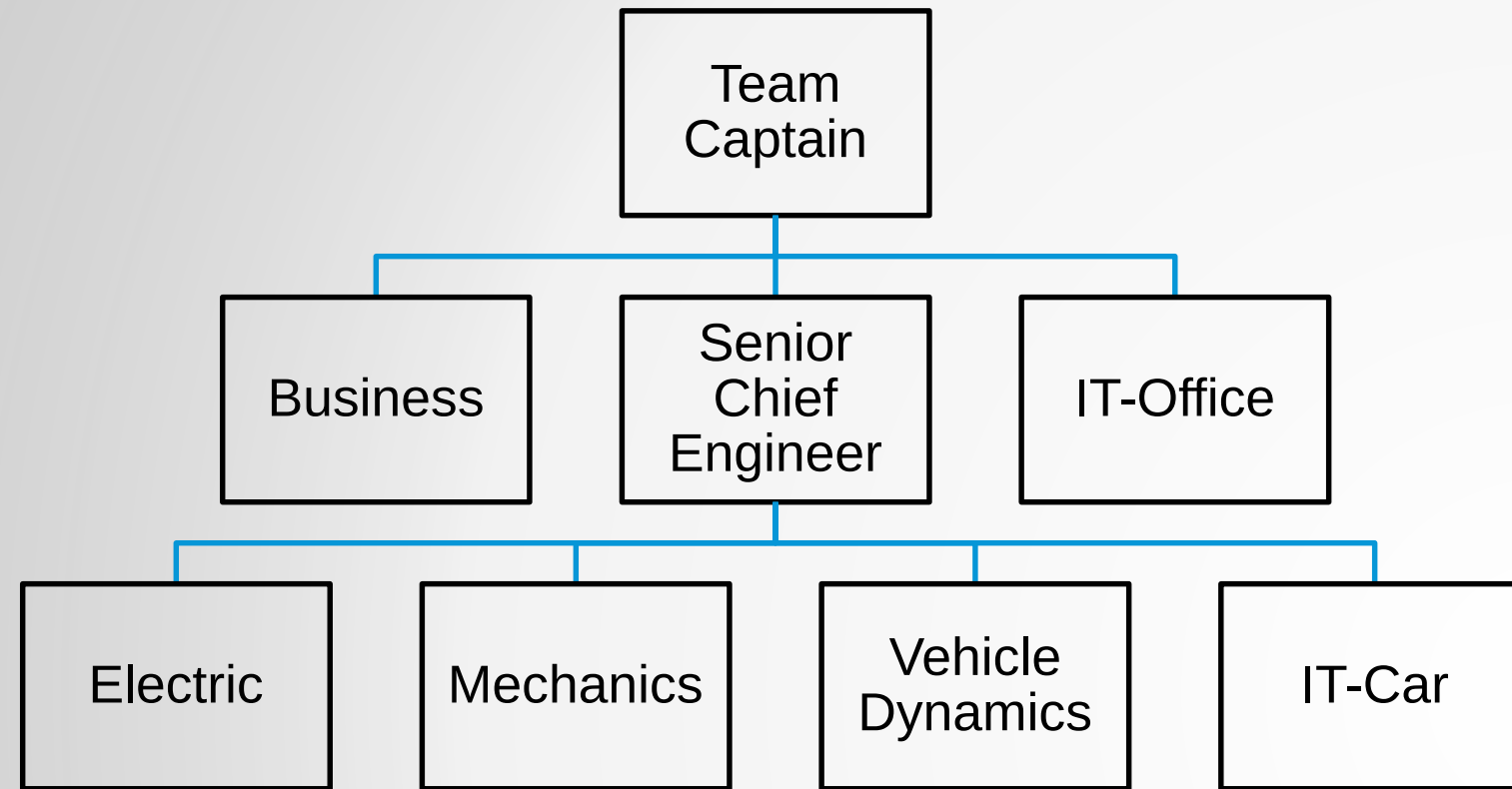
Verein

- Gegründet 2004
- 30 aktive Mitglieder
- Teilnahme an der Formula Student Electric (seit 2011)

Fahrzeug

- 10. Rennwagen
- 5. Elektrofahrzeug
- 1. CFK-Monocoque

Elefant Racing



Studiengänge:

- Engineering Science
- Wirtschaftsingenieurwesen
- Computer Science
- Materials Science and Engineering (M.Sc.)
- Automotive Components Engineering and Mechatronics (M.Sc.)
- Chemie
- BWL
- Physik
- Medien und Kommunikation

Elefant Racing

Erfolge der letzten Jahre

- Silverstone 2007 „Most desirable Engineering Product“
- Fiorano 2007 „Most original Vehicle“
- Silverstone 2008 „Best use of composites“
- Hockenheim 2008 „Style Award“
- Hockenheim 2008 „Finalist Konstruktion“
- Hockenheim 2011 „Best use of Adhesives“
- Baltic Open 2012 „Best Electric Vehicle“
- Austria 2013 „3rd Place Efficiency“

Saison 2014/15



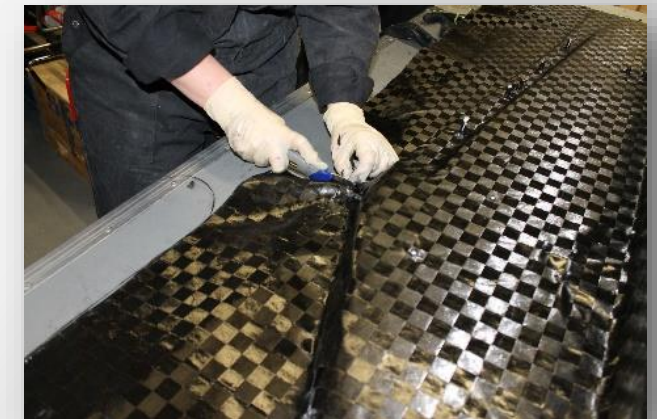
Konzeptfindung
&
Planung

Berechnung
&
Konstruktion

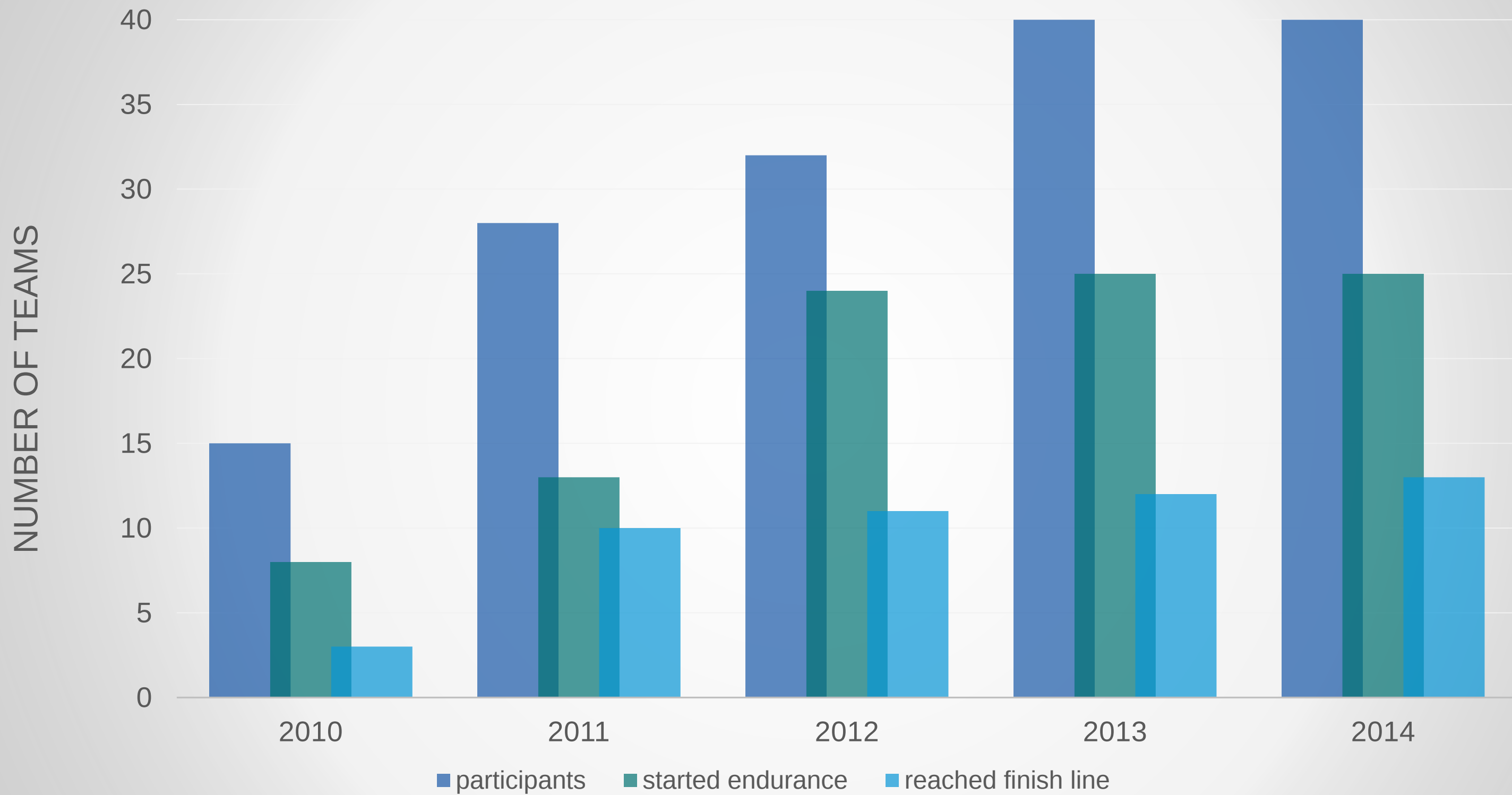
Fertigung

Testbetrieb

Wettbewerb



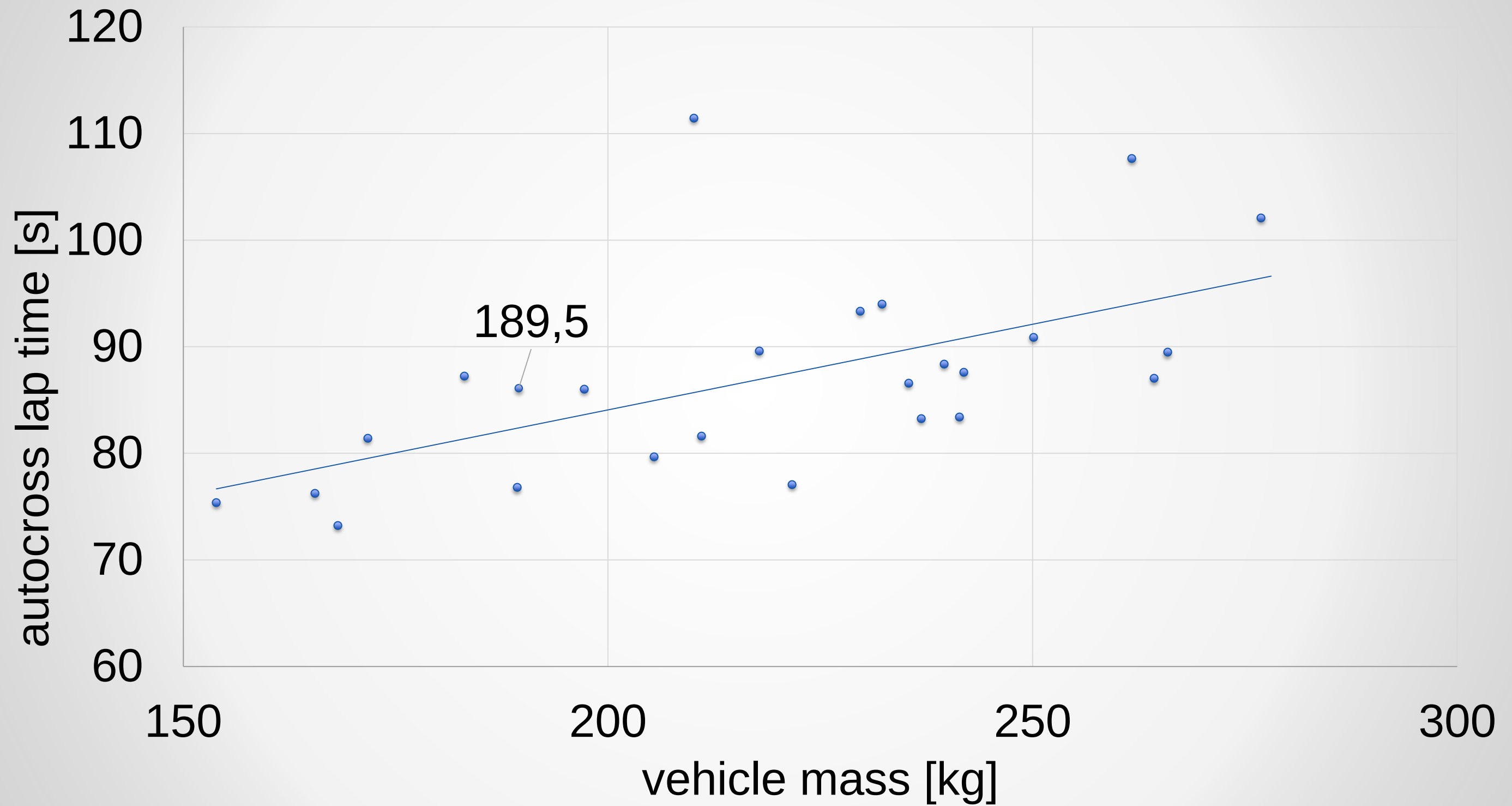
Top 10 Dynamics bei der Formula Student Germany



Reliability



Top 10 Dynamics bei der Formula Student Germany



Reliability



Lightweight



Top 10 Dynamics bei der Formula Student Germany



Reliability



Lightweight



Drivability



Top 10 Dynamics bei der Formula Student Germany

13“ – Felgen

vs.

10“- Felgen

Stahl-Gitterohrrahmen

vs.

Monocoque

2 Rad Antrieb

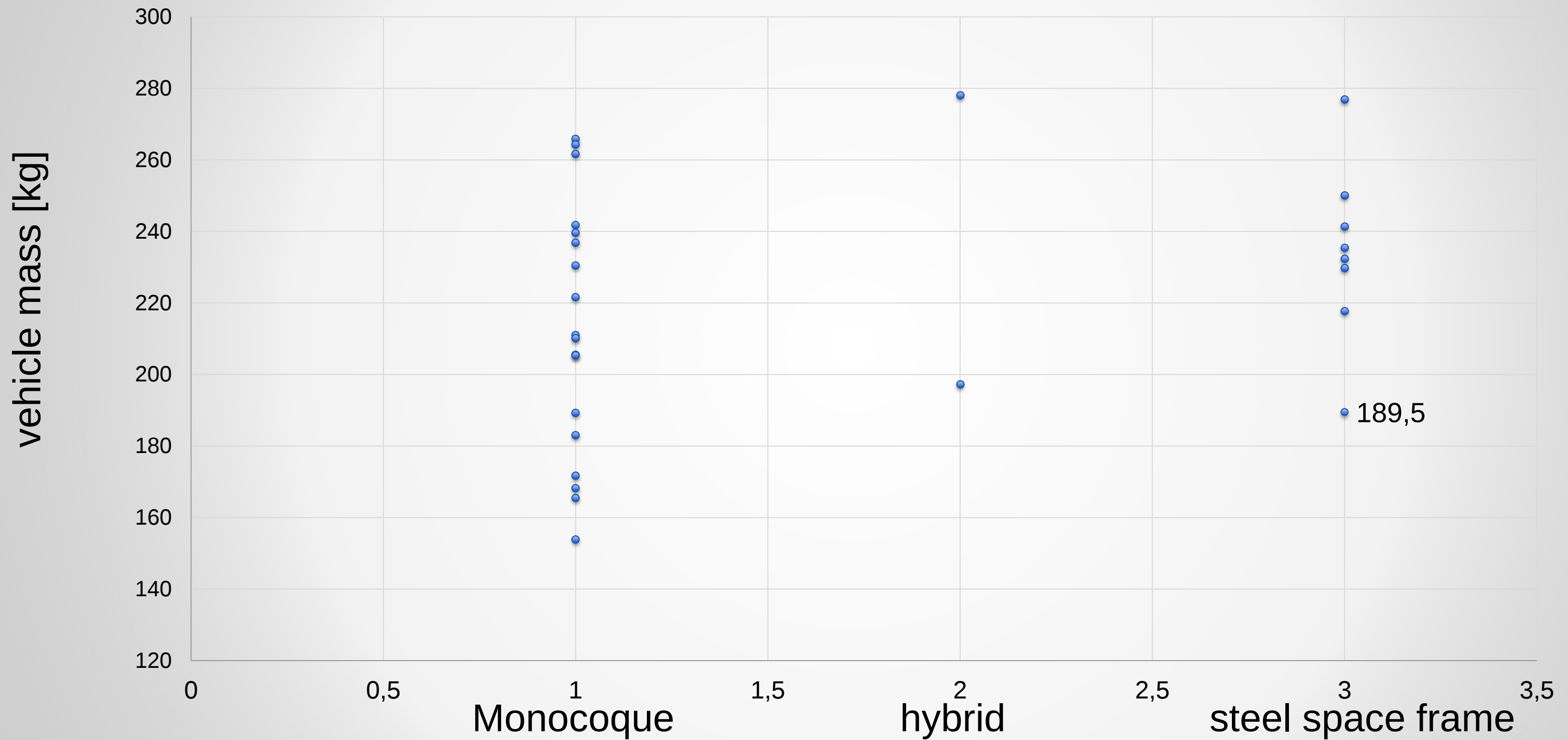
vs.

4 Rad Antrieb

Kein Aerodynamikpaket

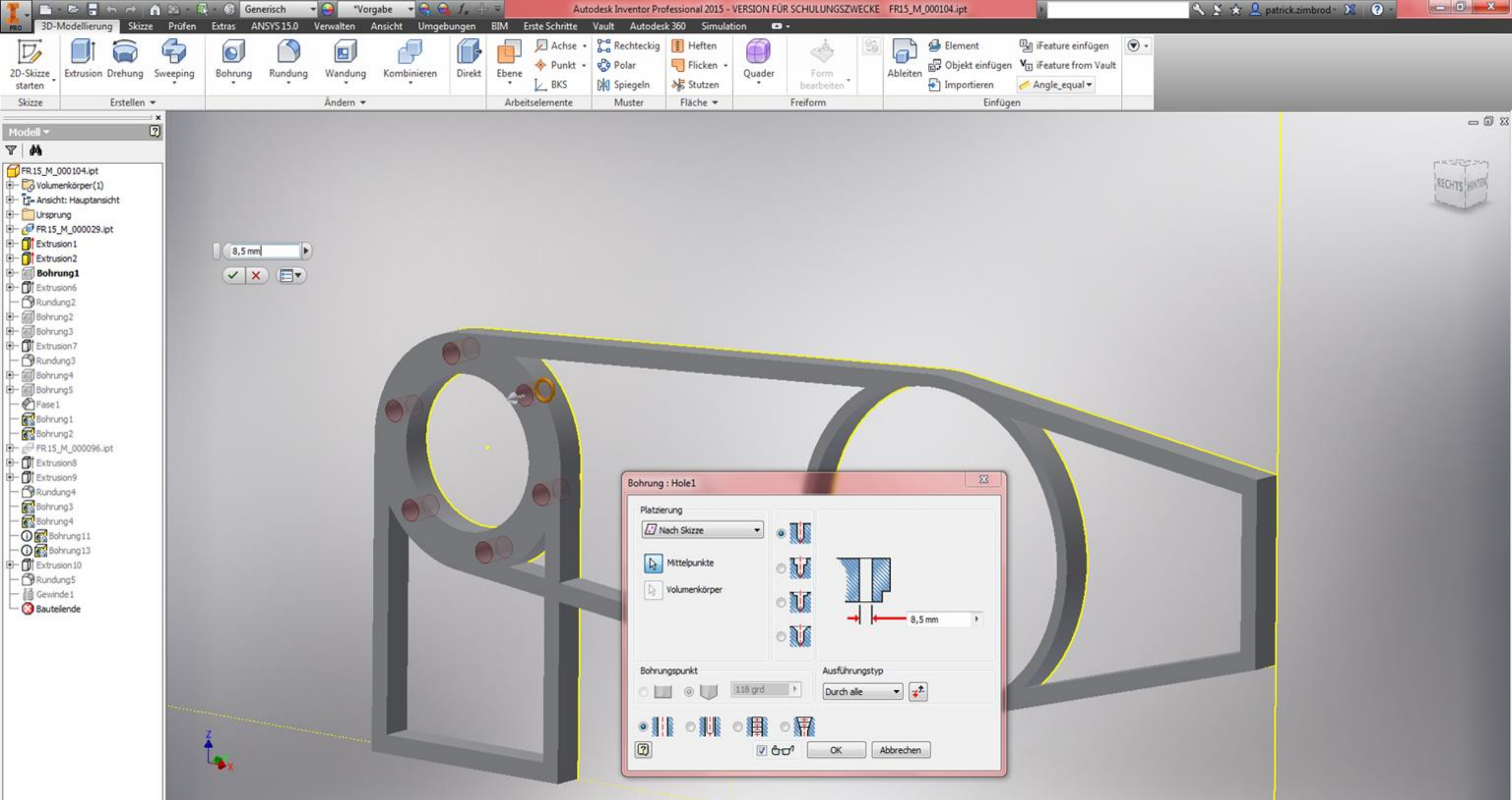
vs.

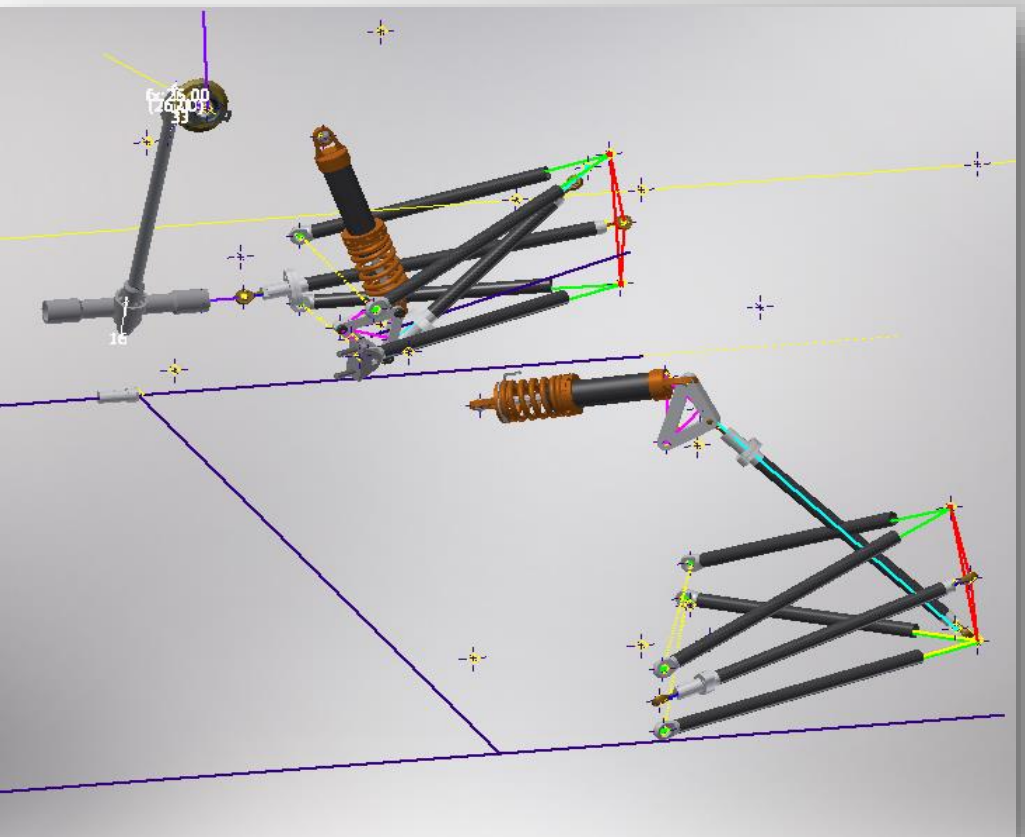
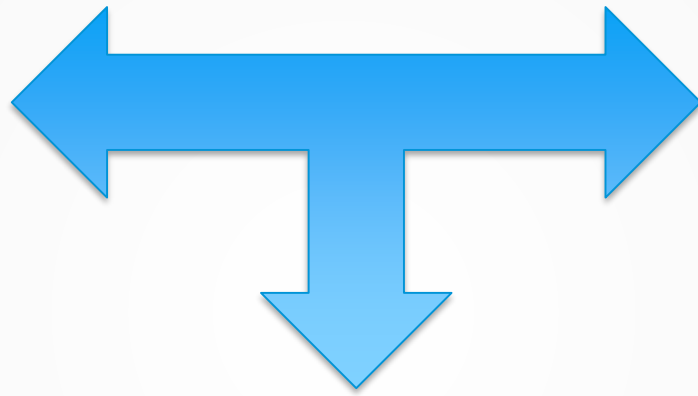
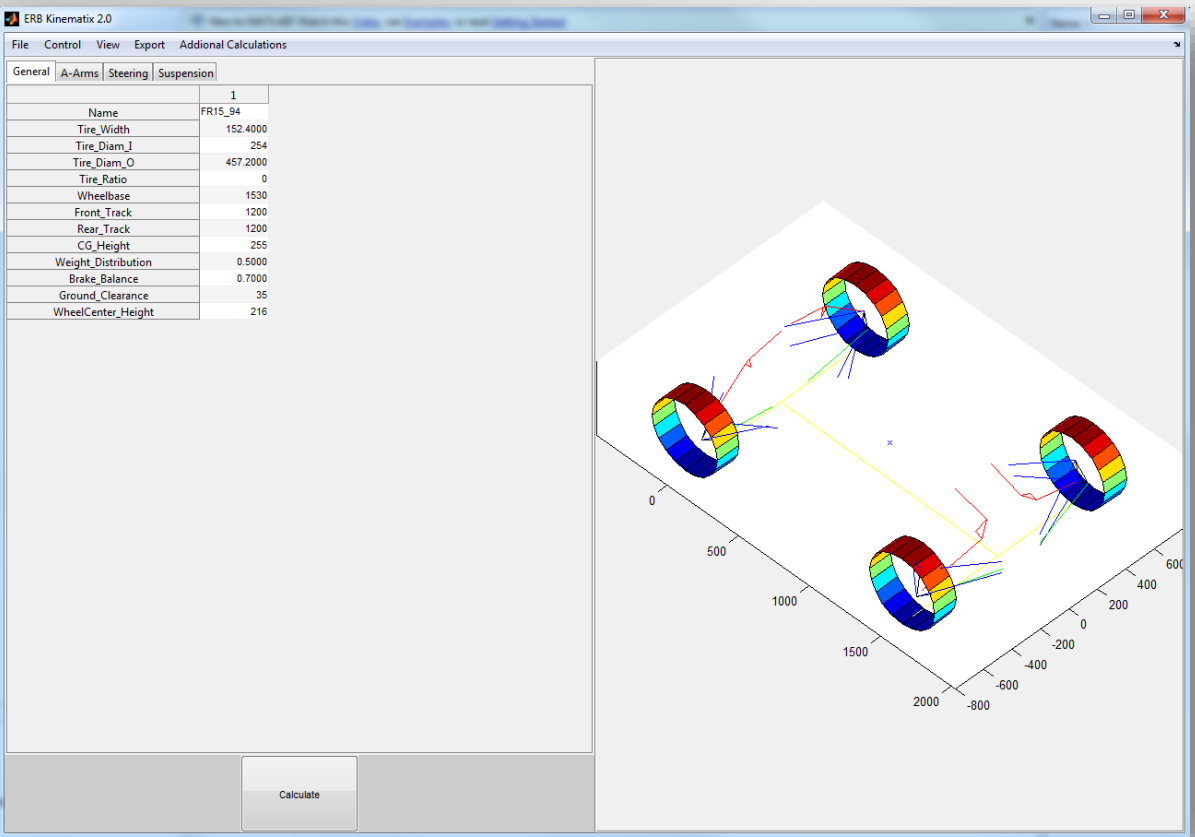
Aerodynamikpaket



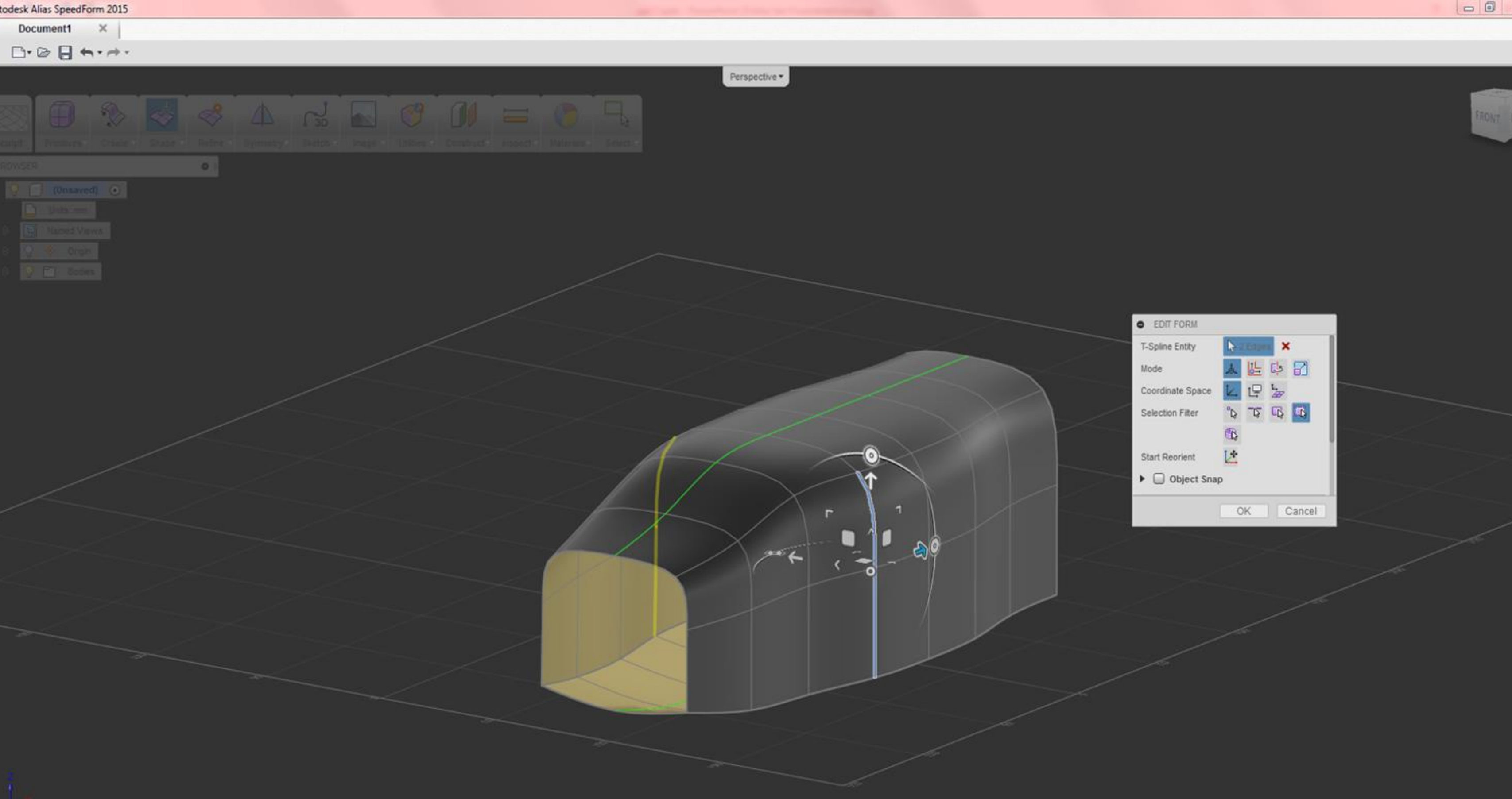
Design

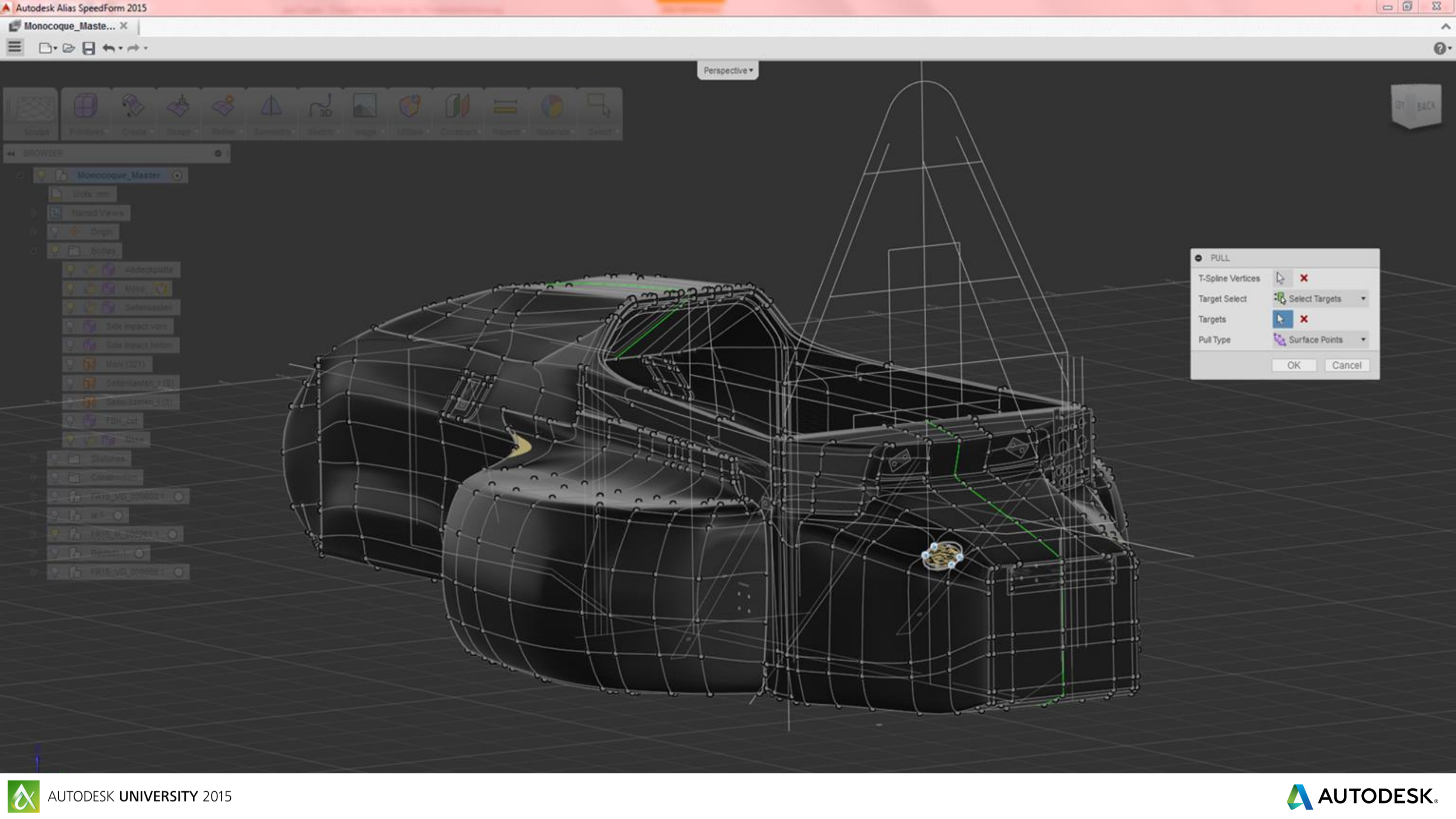


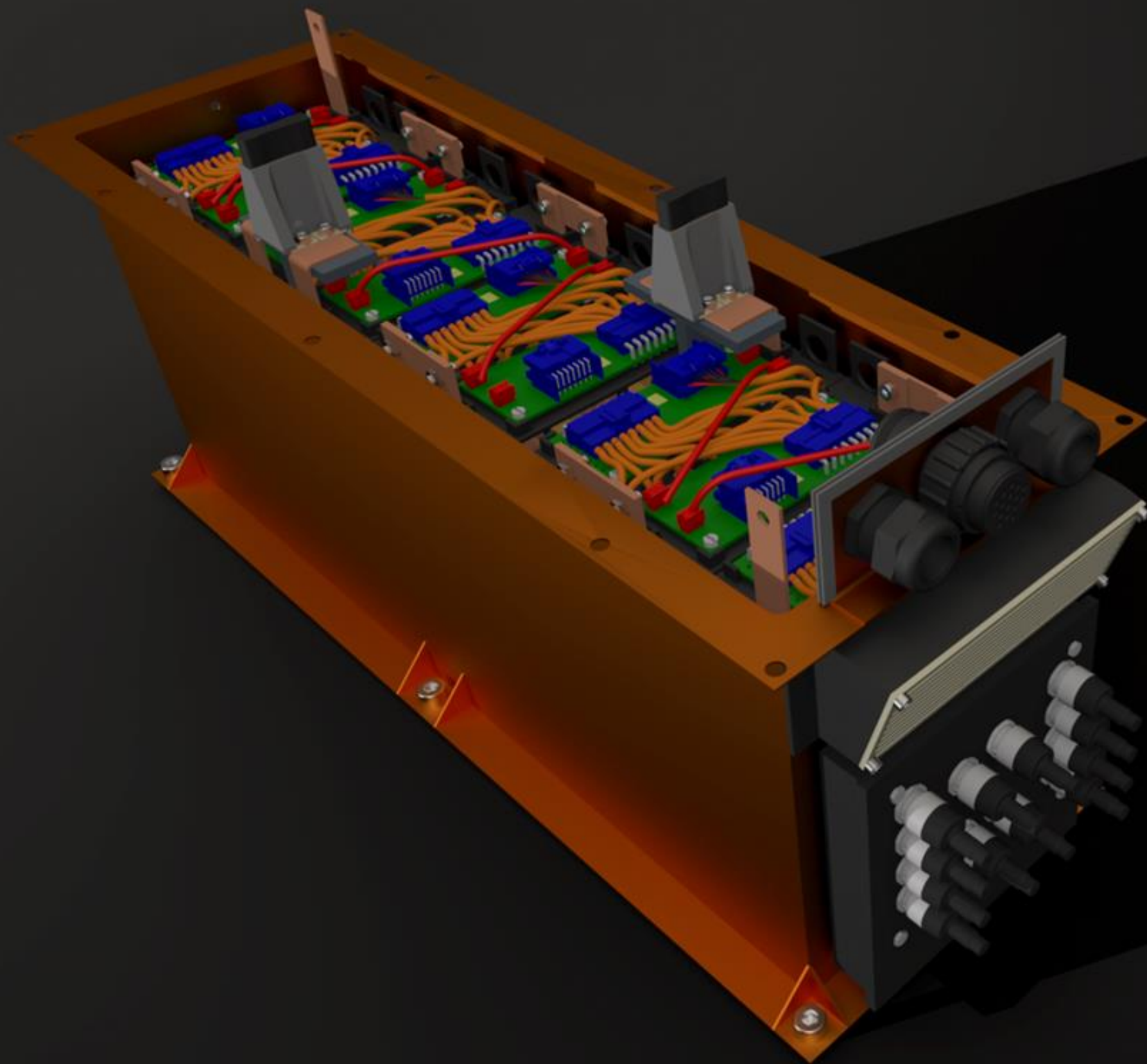


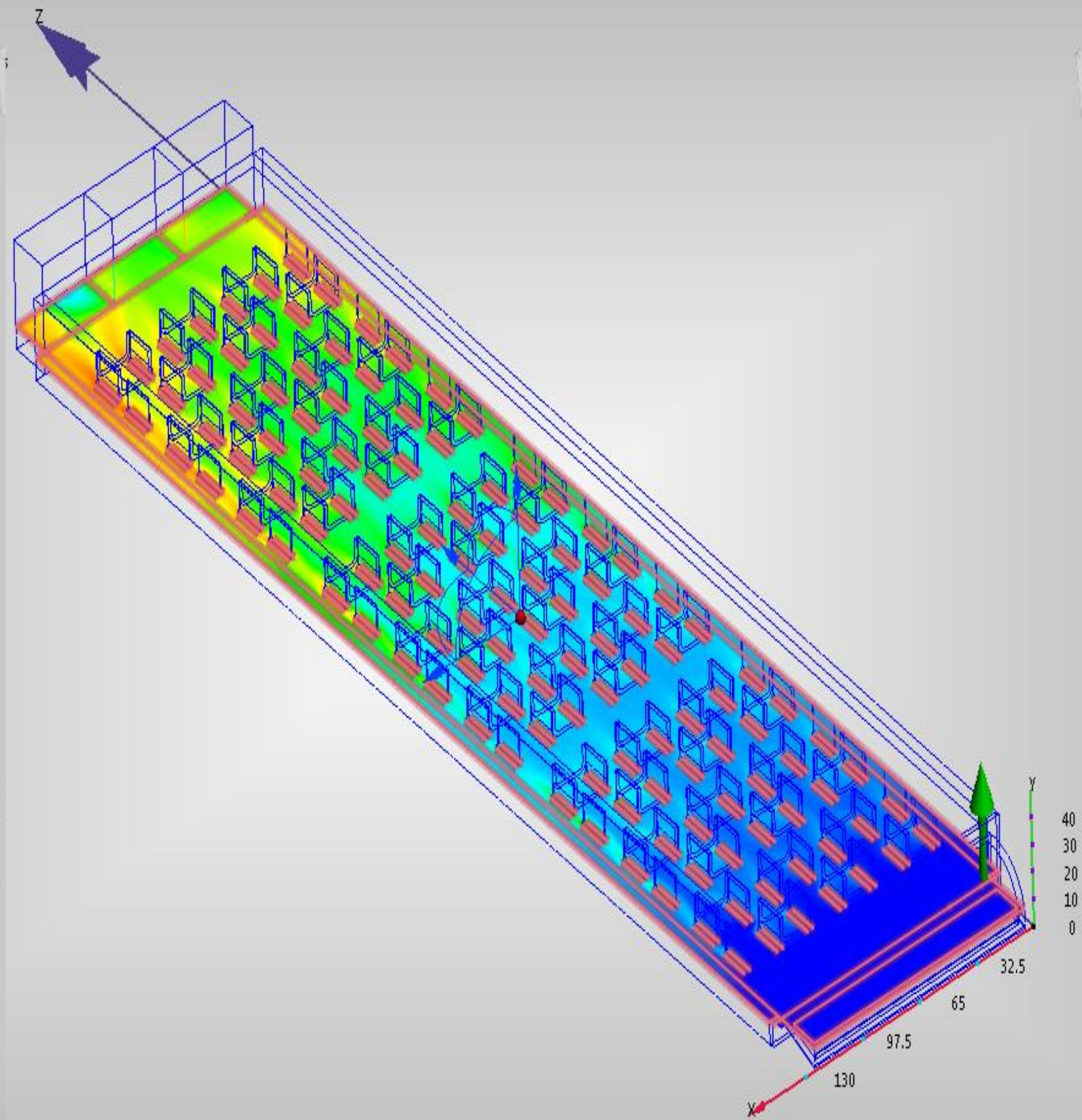
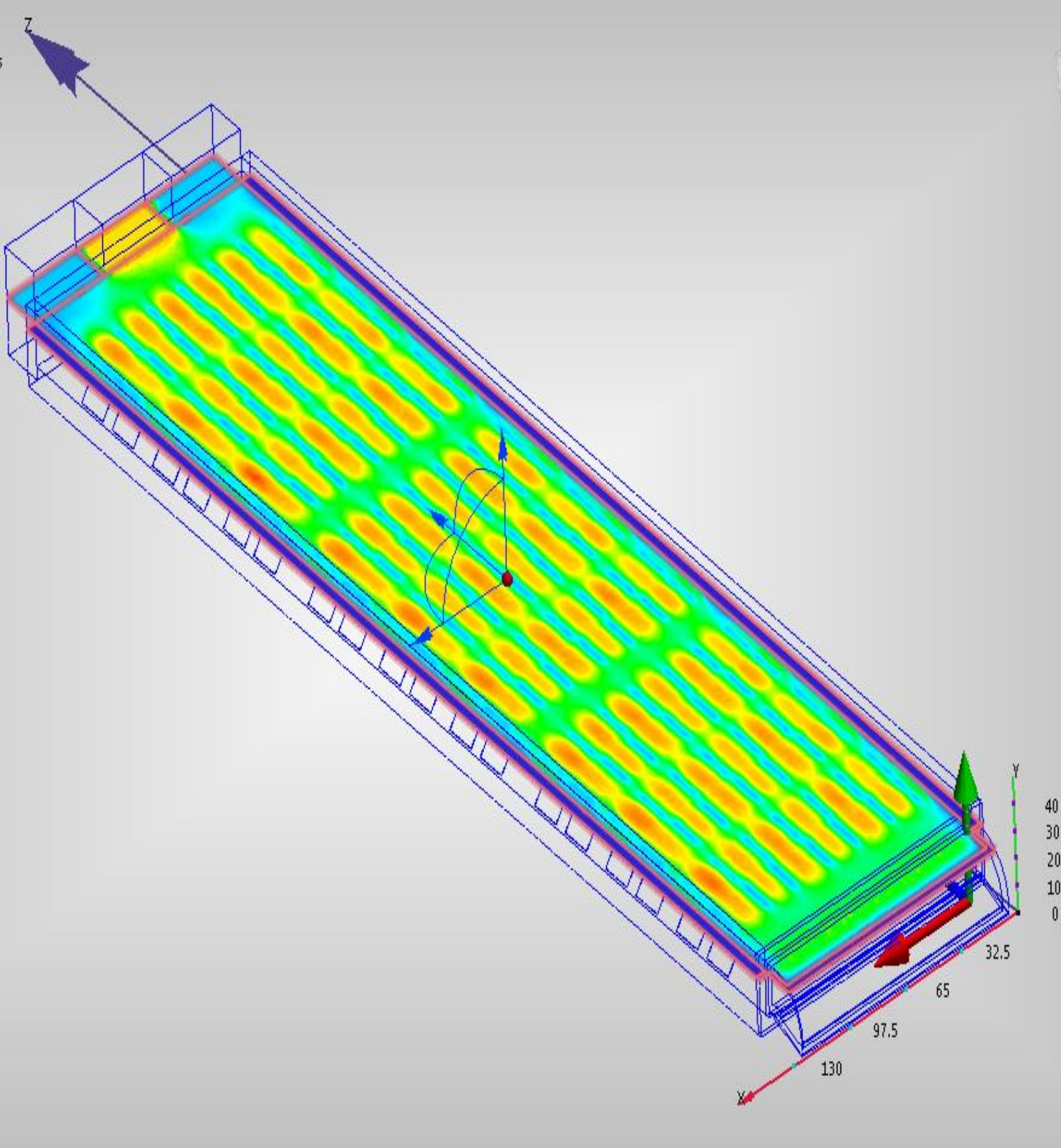










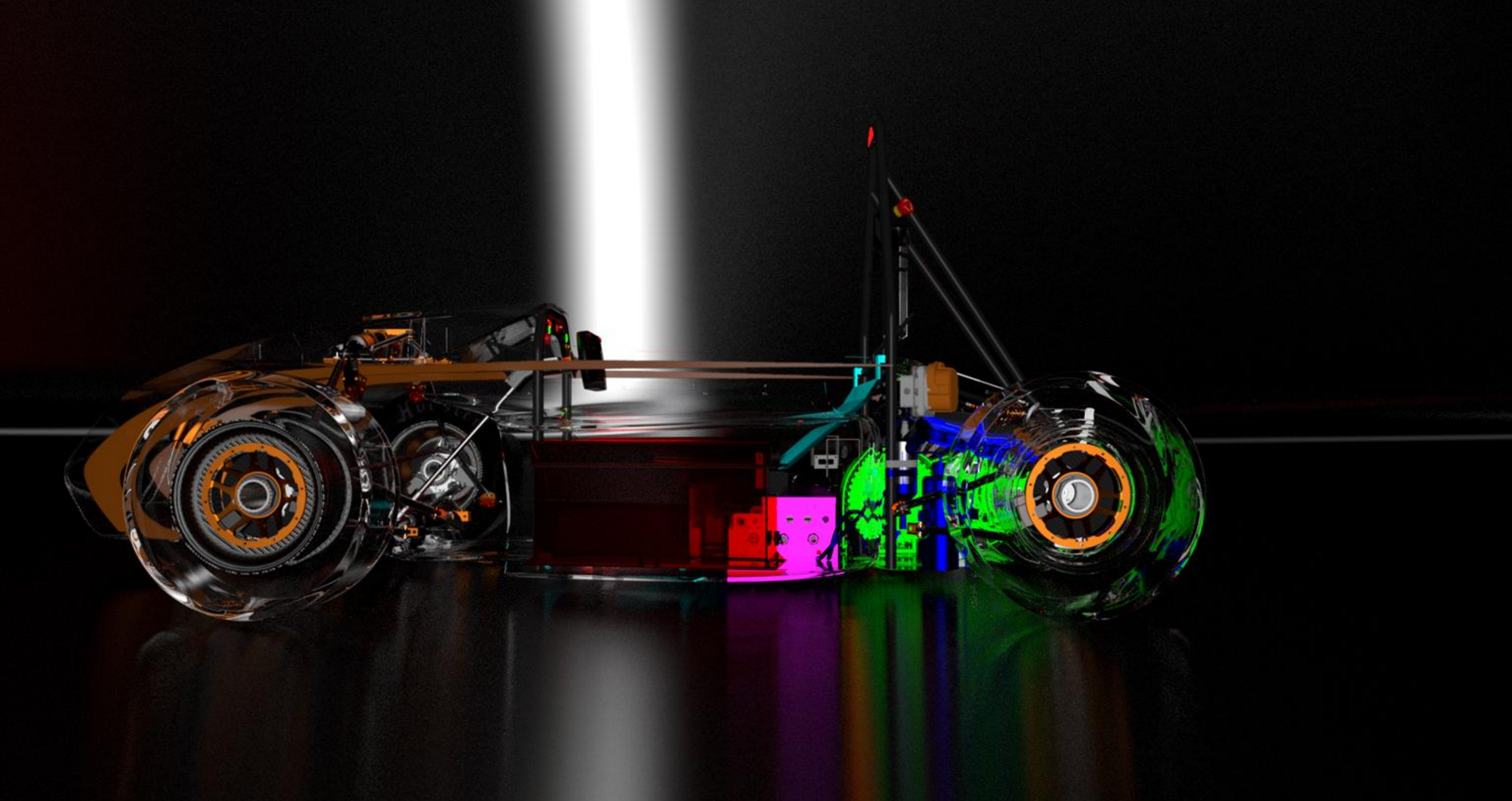












Fertigung

Germany



Formula Student Germany 2008



BOSCH

brünel



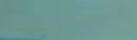
DAIMLER

DEKRA



MAHLE

reinsch



Universität Bayreuth
GERMANY

University of Bayreuth



AUTODESK UNIVERSITY 2015



AUTODESK

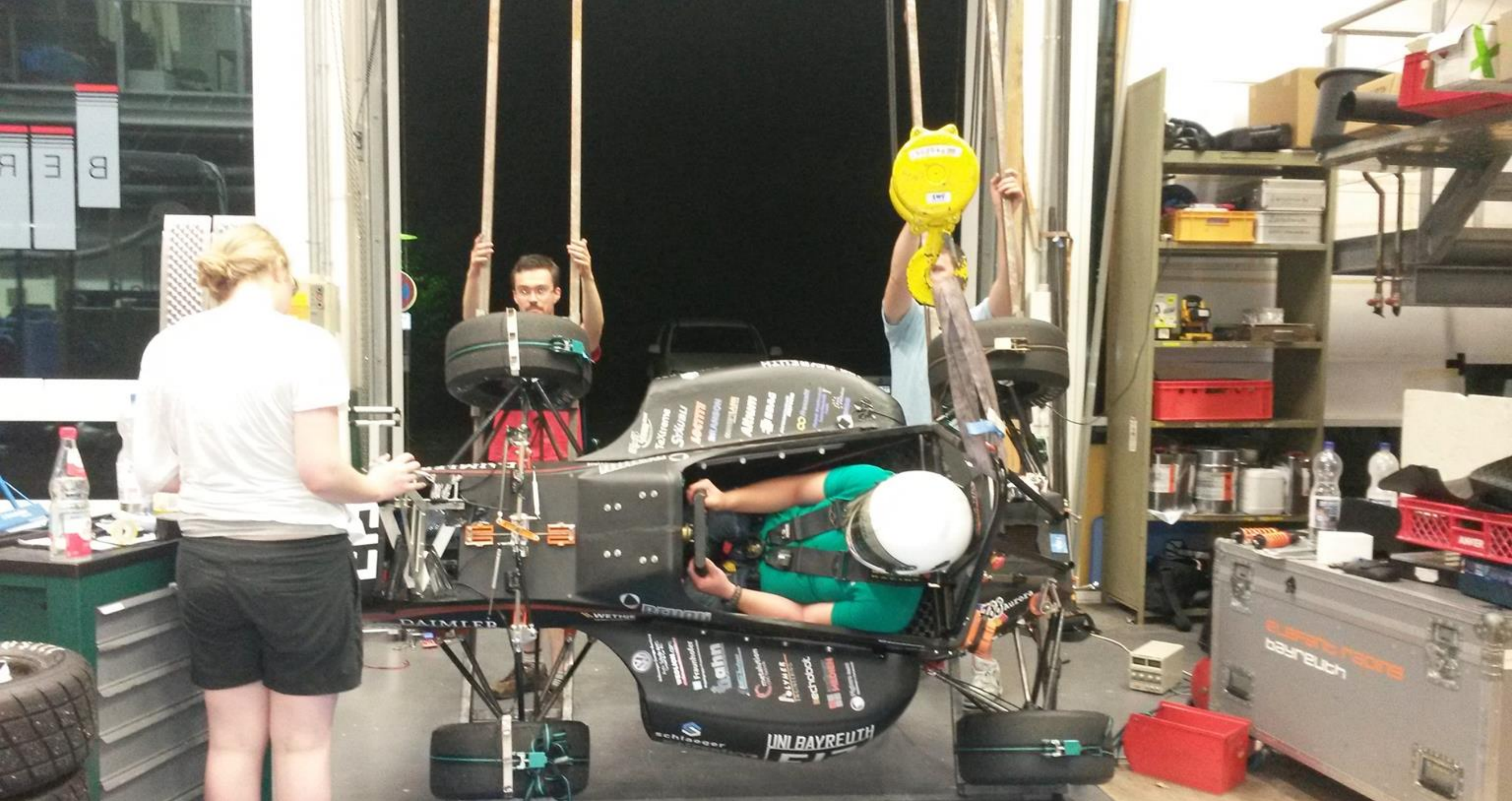






Testphase







Events



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FSG Results

Overall:	# 7
Business:	# 12
Cost:	# 14
Design:	# 23
Skid Pad:	# 14
Acceleration:	# 19
AutoX:	# 10
Endurance:	# 7
Efficiency:	# 1



FSA Results

Overall:	# 7
Business:	# 3
Cost:	# 12
Design:	# 13
Skid Pad:	# 17
Acceleration:	# 9
AutoX:	# 8
Endurance:	# 6
Efficiency:	# 4



FSCz Results

Overall:	# 1
Business:	# 2
Cost:	# 2
Design:	# 4
Skid Pad:	# 3
Acceleration:	# 2
AutoX:	# 2
Endurance:	# 1
Efficiency:	# 7





