



**Trevor Tuck**  
**Mechanical Engineer**

Hi, I'm a mechanical engineer with an interest in manufacturing and structural design.

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**1 UCI Rocket Project**

Structures & Manufacturing Engineer

**2 Gluebi: Weldless Bike Frame**

Chief Engineer

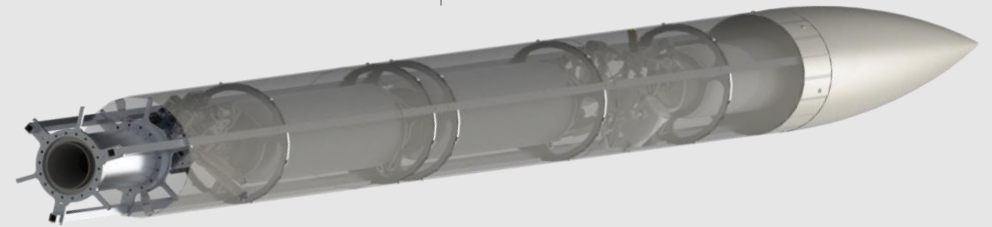
**Education**

B.S. Mechanical Engineering  
University of California, Irvine  
2018-2023

**Skills**

SolidWorks  
Catia  
Abaqus  
Python

Machining  
3D Printing  
CAM  
GD&T



## UC Irvine Rocket Project



# Methalox Rocket Engine Manufacturing

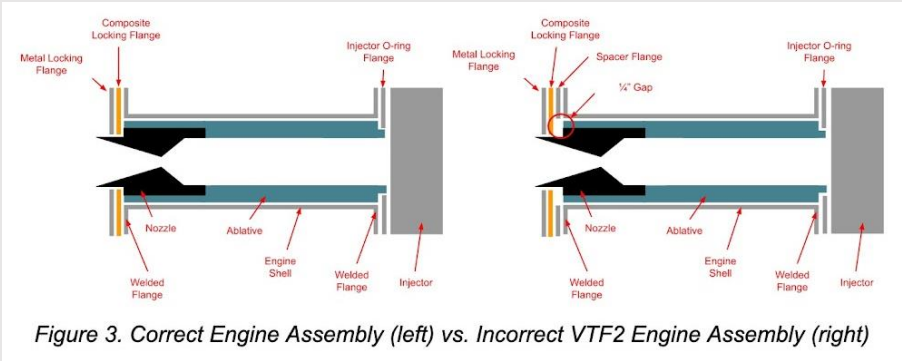
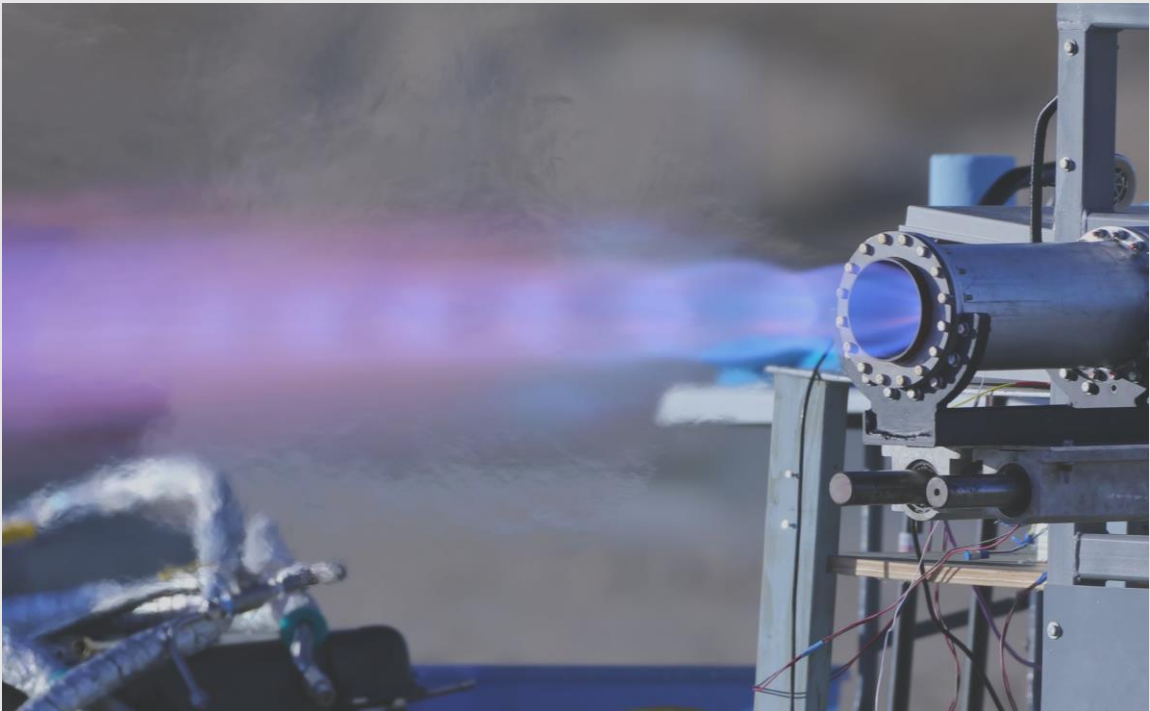
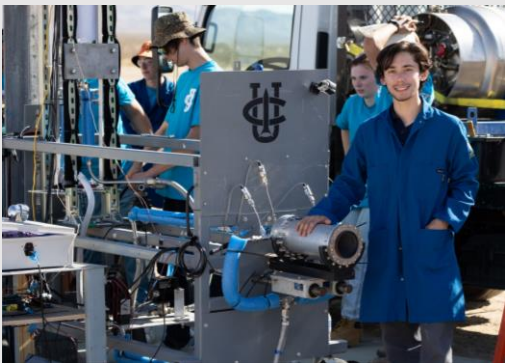
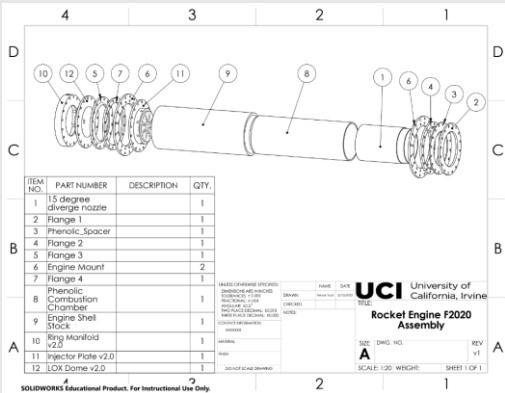
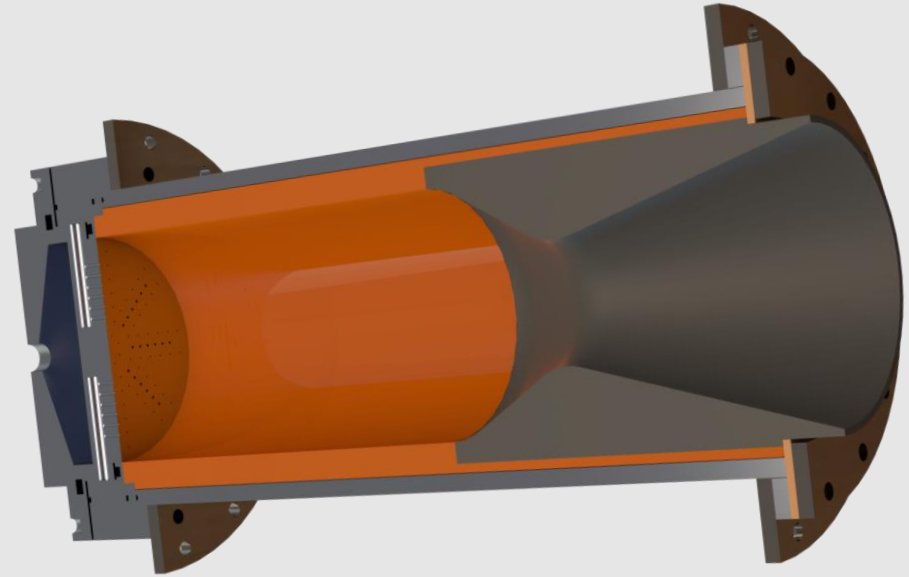


Figure 3. Correct Engine Assembly (left) vs. Incorrect VTF2 Engine Assembly (right)

## Skins Jig



## UCIRP CAD Drive





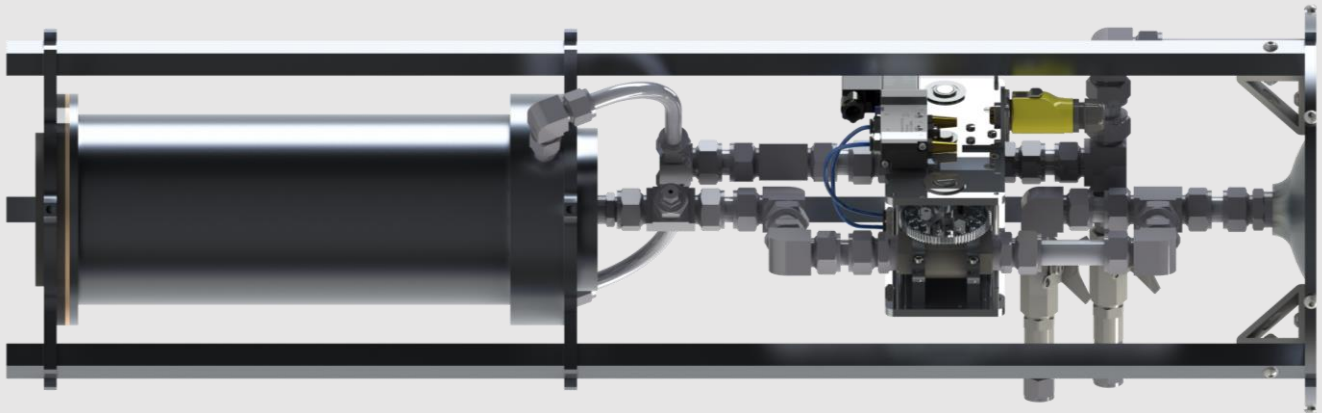
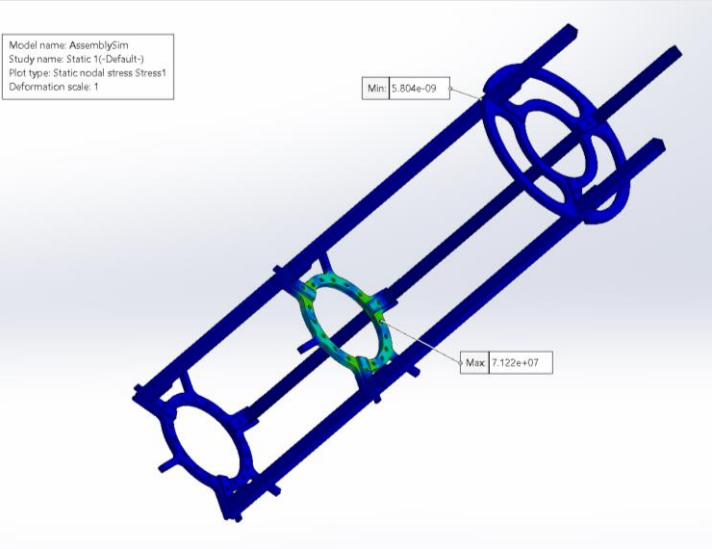
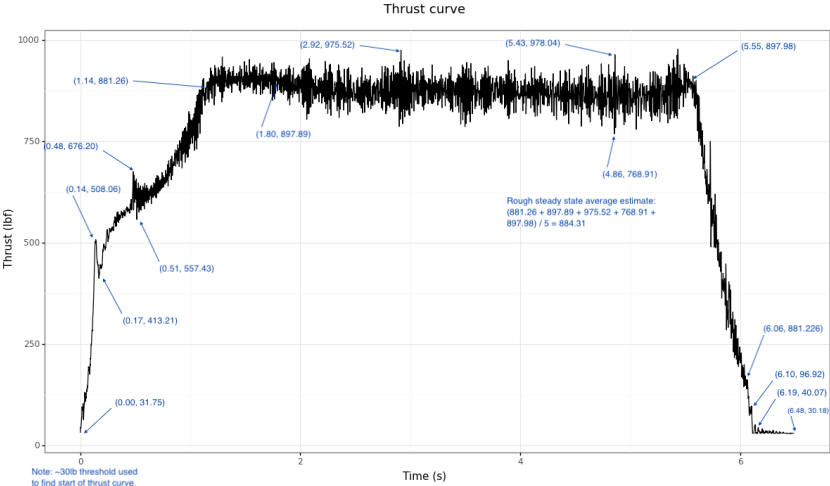
## Bulkhead Isogrid



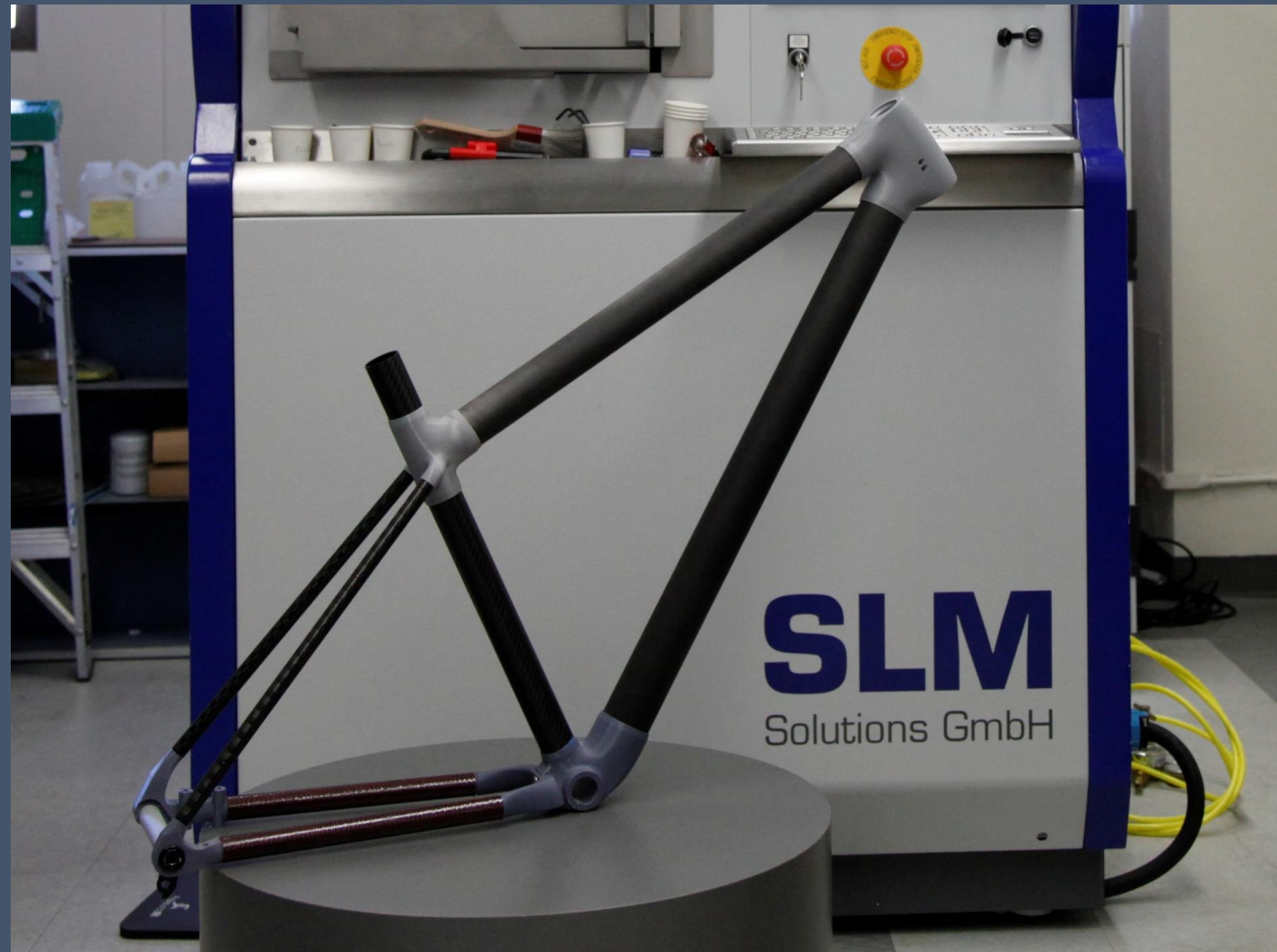
## Rocket Erector



# Structural Sim

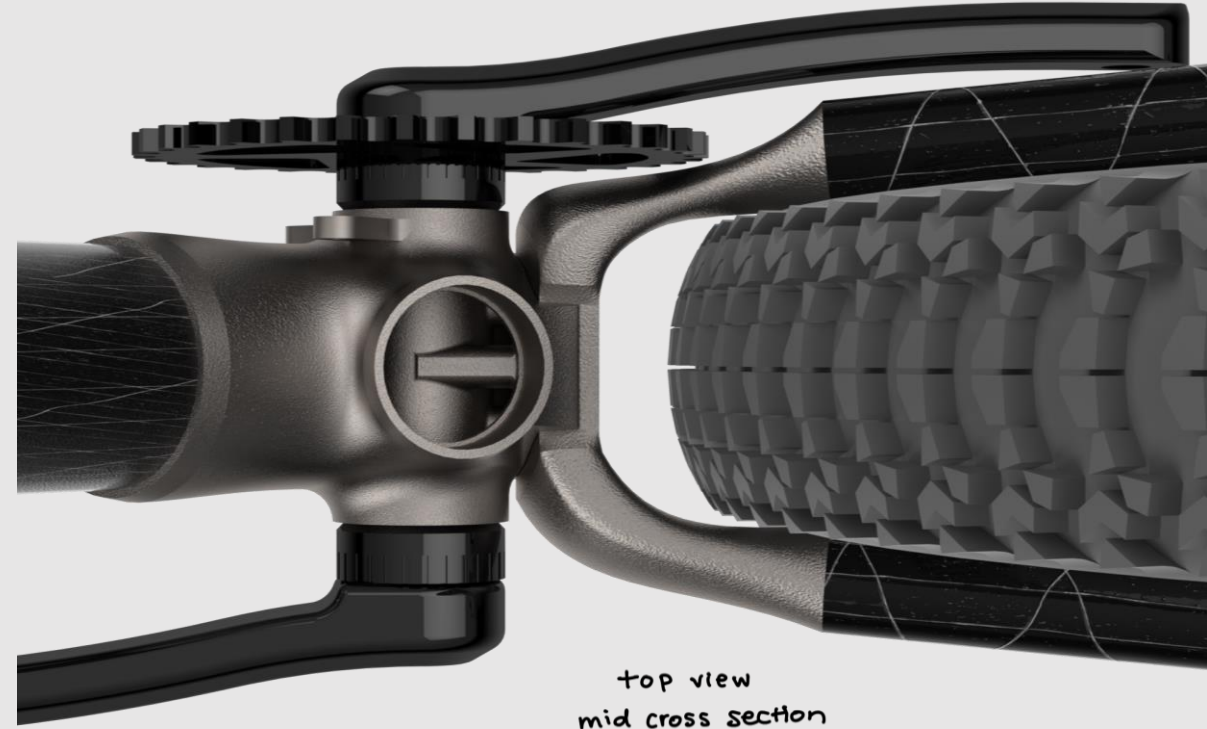
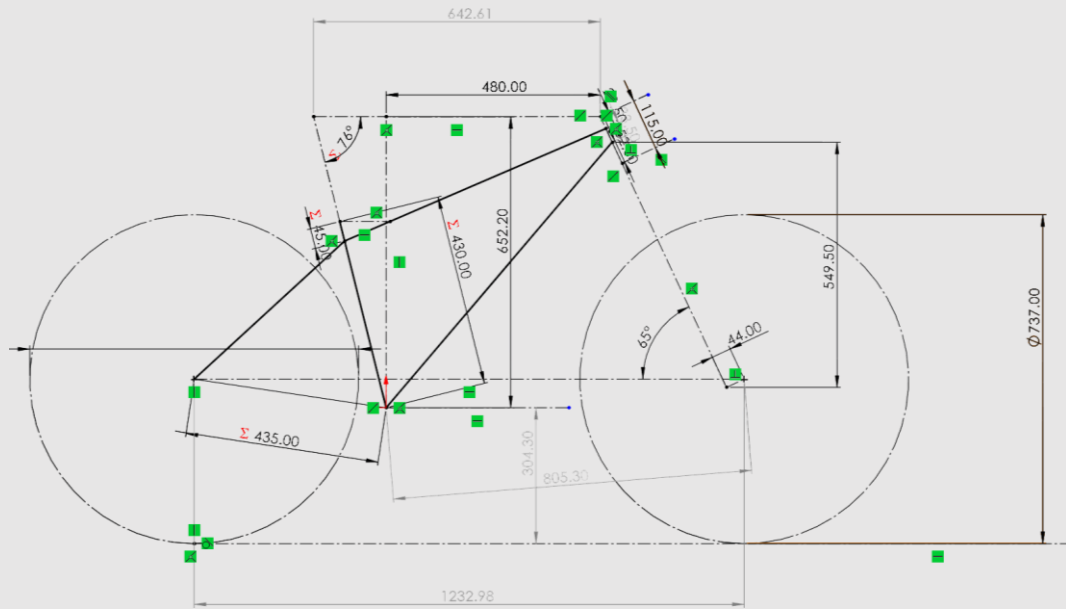


Gluebi

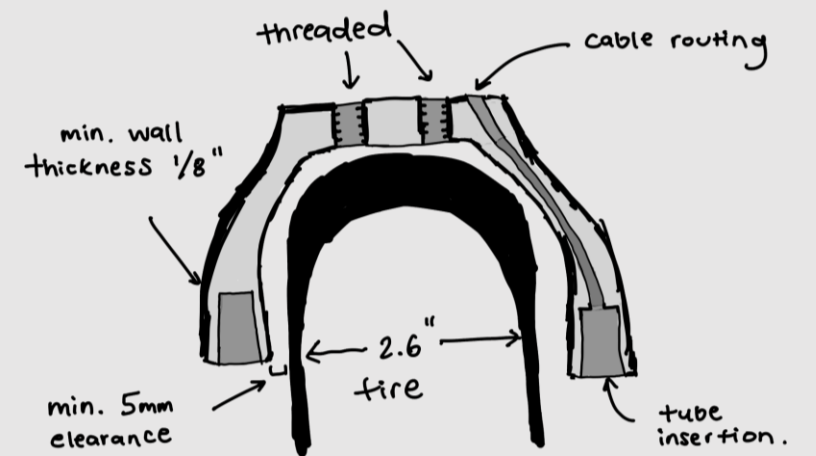




# Parametric CAD & Yoke Design

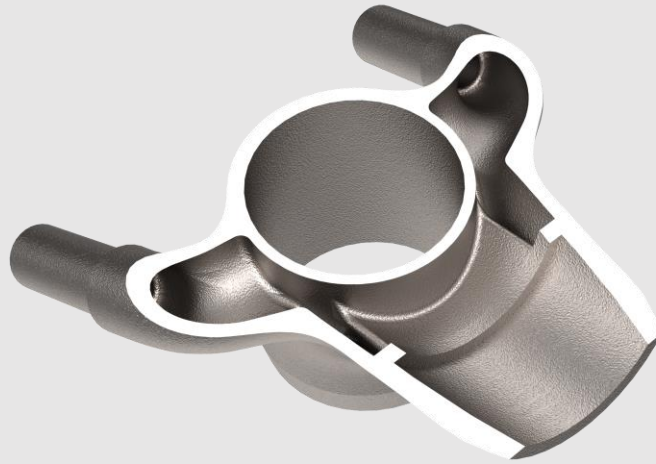
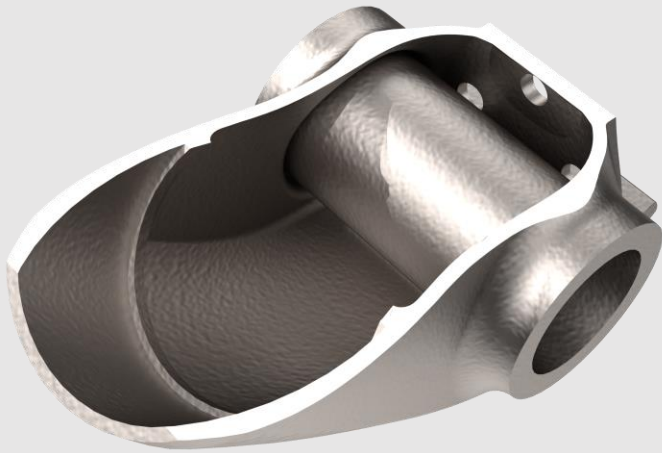


top view  
mid cross section

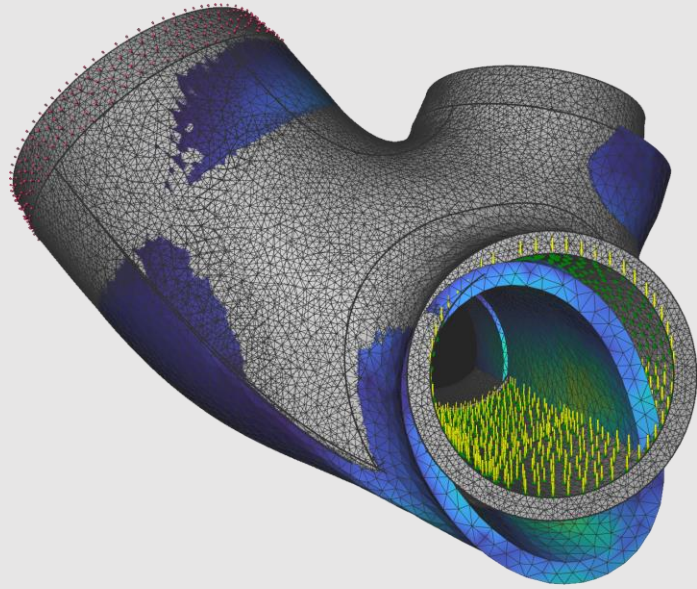
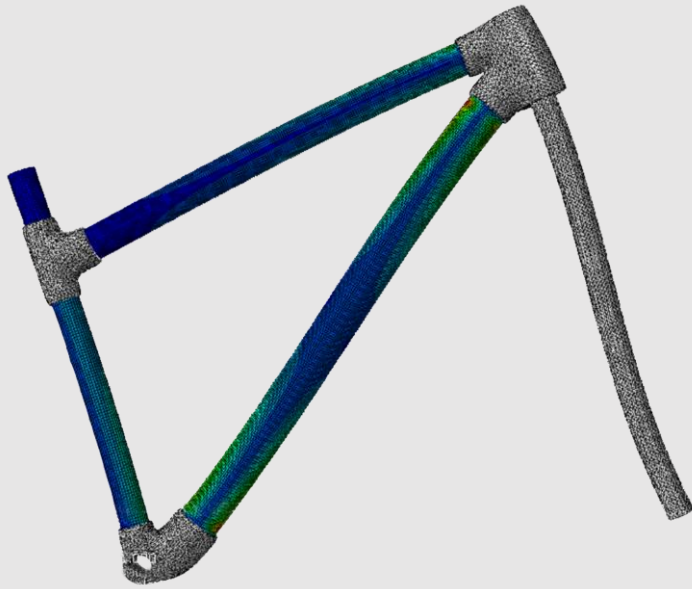




## Lug Surface Modeling



## Abaqus & nTopology FEA



# Prototyping & Manufacturing

