



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

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

Telephone: (562) 673-4551  
Email: [trevortuck00@gmail.com](mailto:trevortuck00@gmail.com)  
[Linkedin](#)

**1 UCI Rocket Project**

Structures & Manufacturing Engineer

**2 Gluebi: Weldless Bike Frame**

Chief Engineer

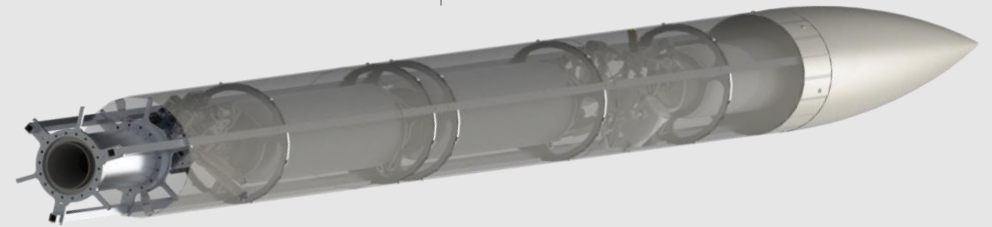
**Education**

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

**Skills**

SolidWorks  
Catia  
Abaqus  
Python

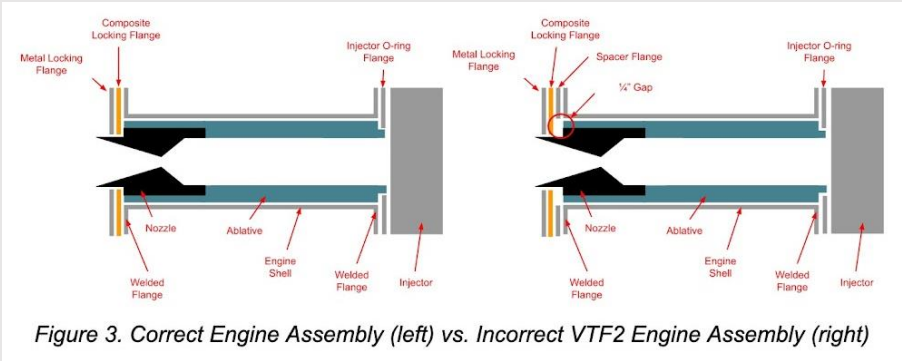
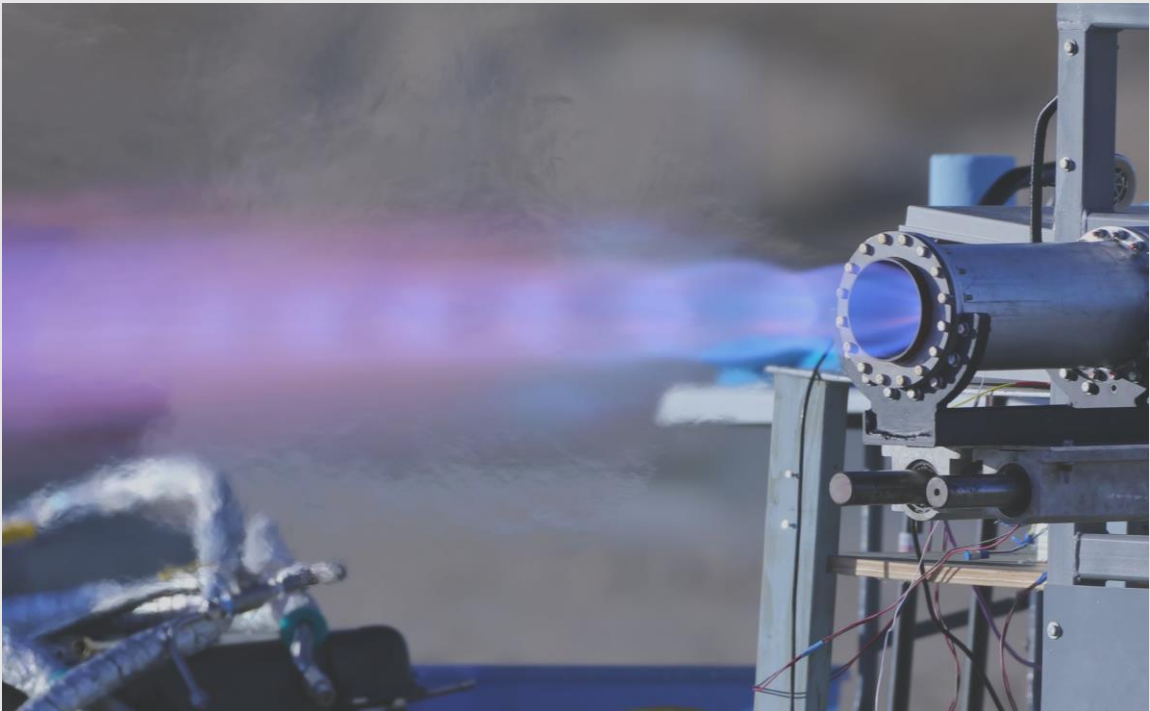
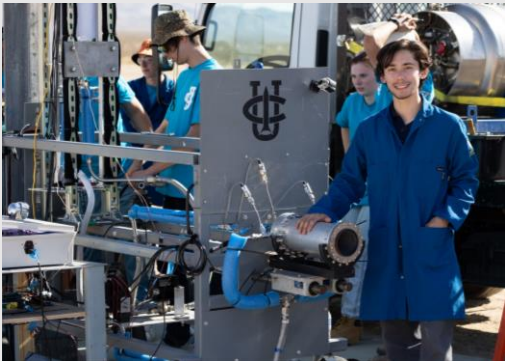
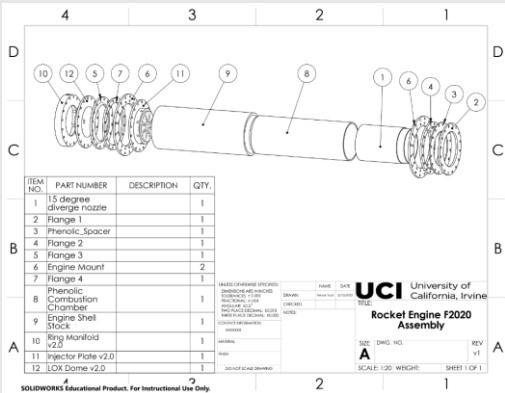
Machining  
3D Printing  
CAM  
GD&T



## UC Irvine Rocket Project



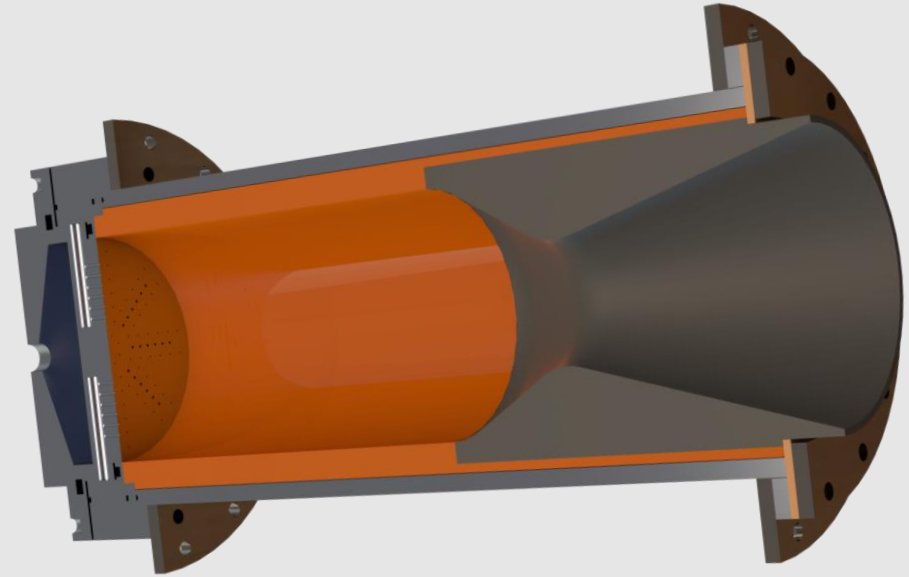
# Methalox Rocket Engine Manufacturing



## Skins Jig



## UCIRP CAD Drive





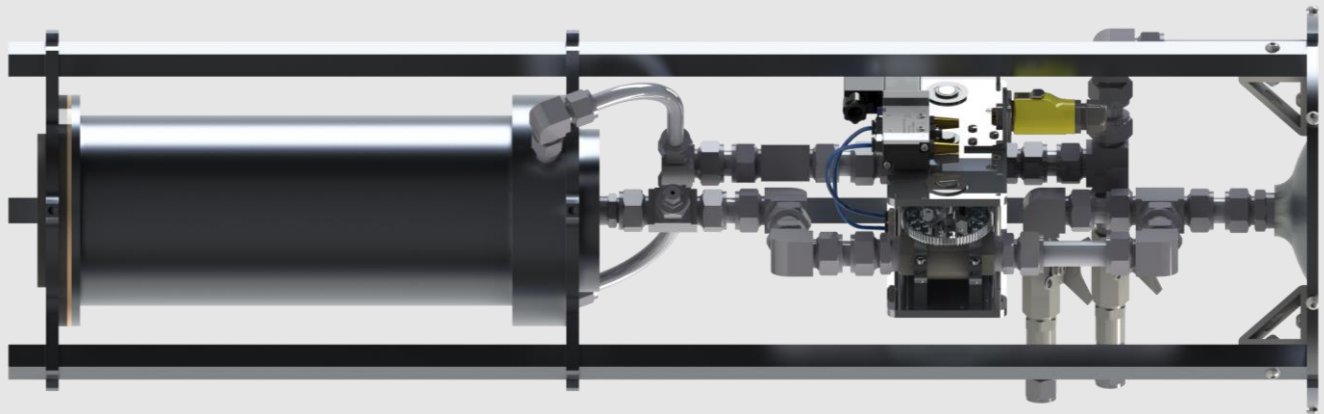
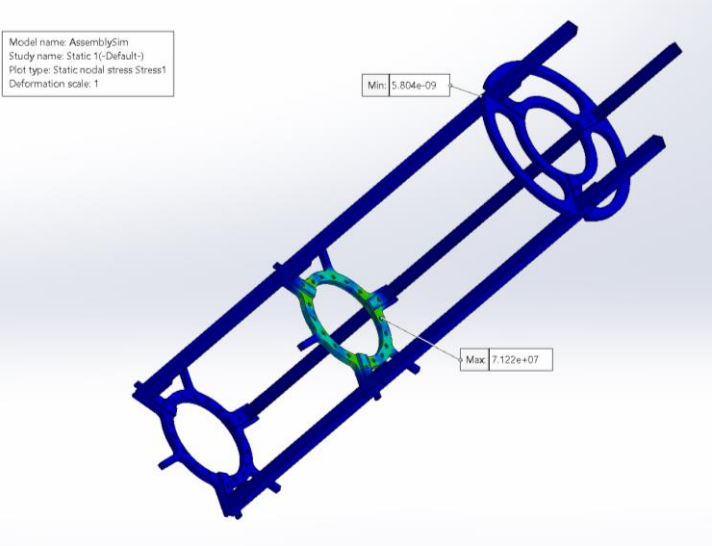
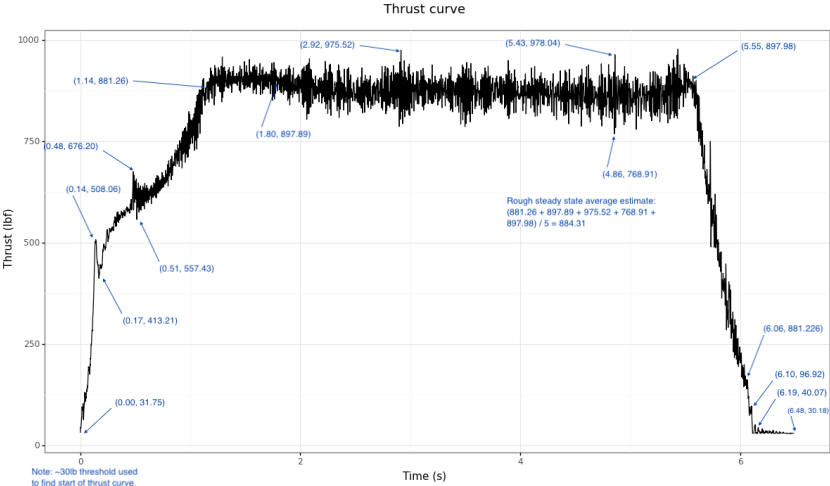
## Bulkhead Isogrid



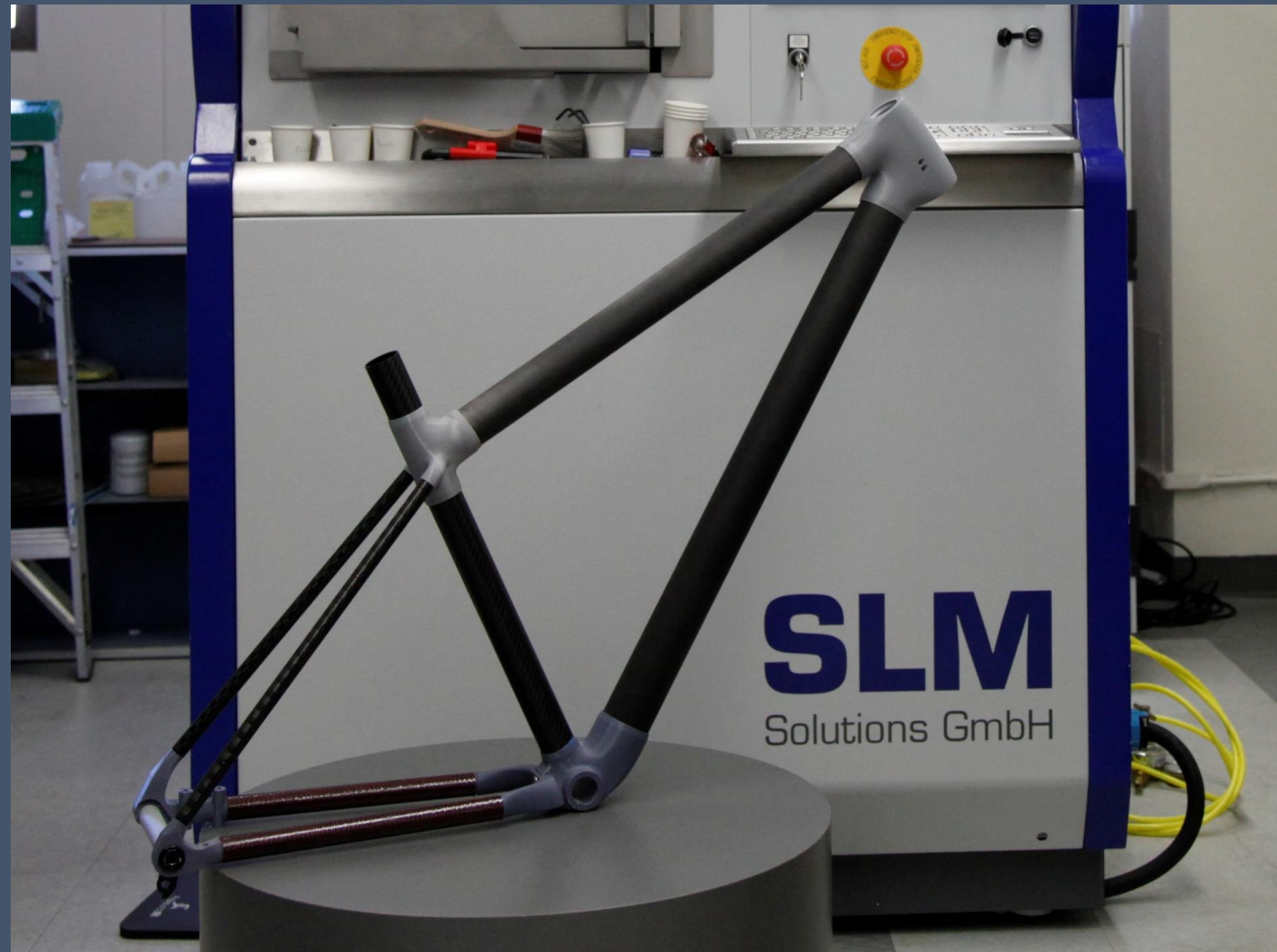
## Rocket Erector



# Structural Sim



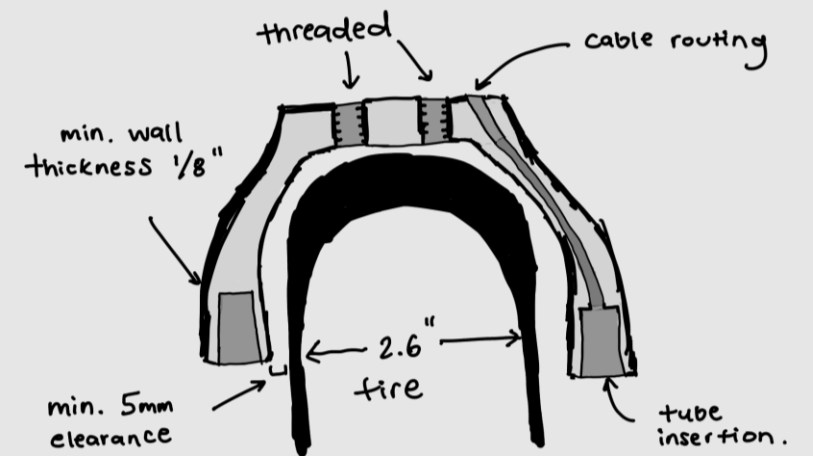
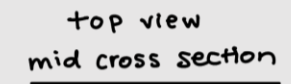
Gluebi





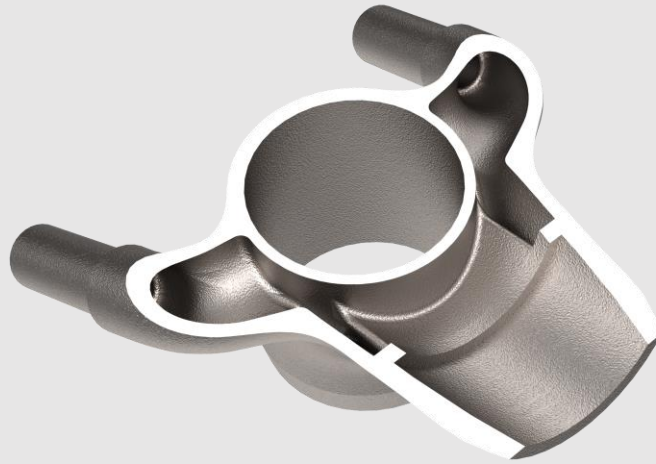
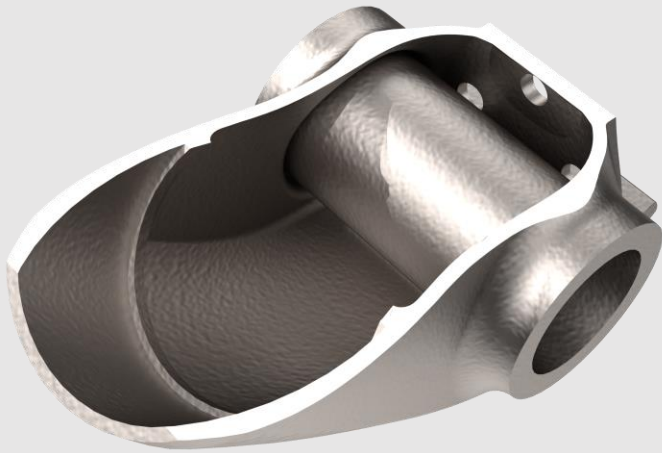
Technical drawing of a bicycle frame showing dimensions and angles. The drawing includes two large circles representing wheels, with a total width dimension of 1232.98. Key dimensions and angles are labeled:

- Top horizontal dimension: 642.61
- Top horizontal segment: 480.00
- Right vertical dimension: 549.50
- Right vertical segment: 805.30
- Bottom horizontal dimension: 1232.98
- Left wheel radius: 435.00
- Right wheel radius: 44.00
- Frame tube length: 430.00
- Frame tube length: 452.20
- Frame tube length: 304.30
- Angles: 76°, 154°, 65°, 115.00°

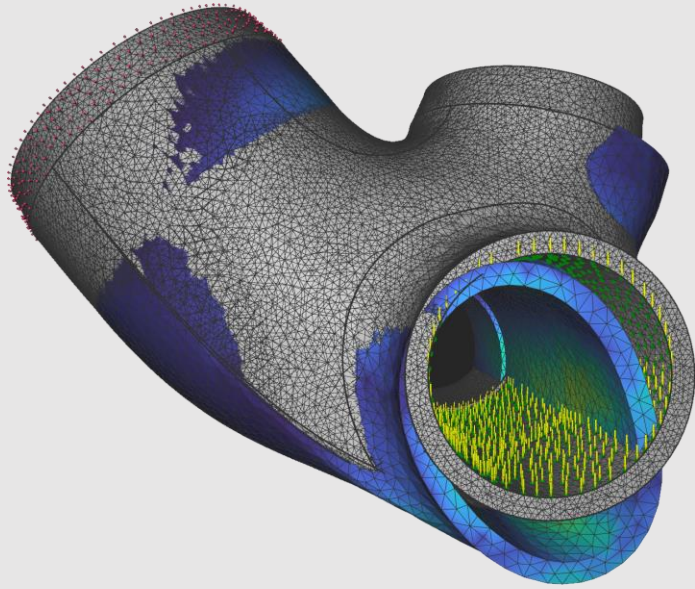
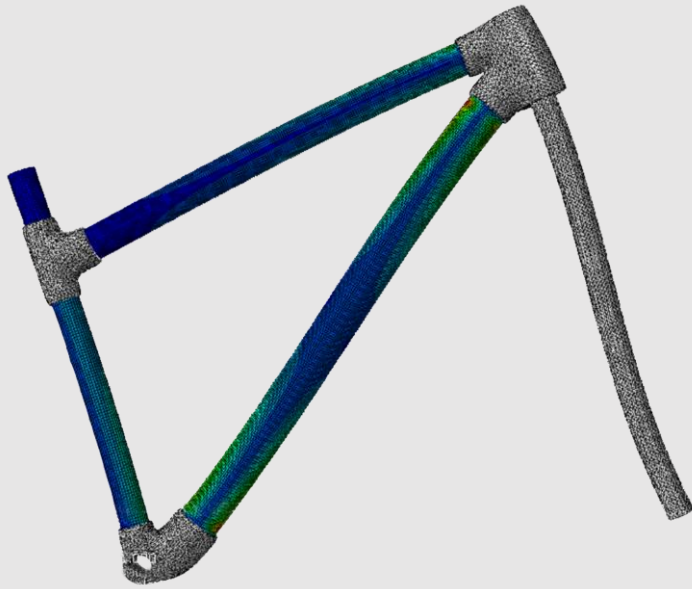




## Lug Surface Modeling



## Abaqus & nTopology FEA



# Prototyping & Manufacturing

