

# H Y P E R X I T E

## Future of Affordable and Sustainable Transportation

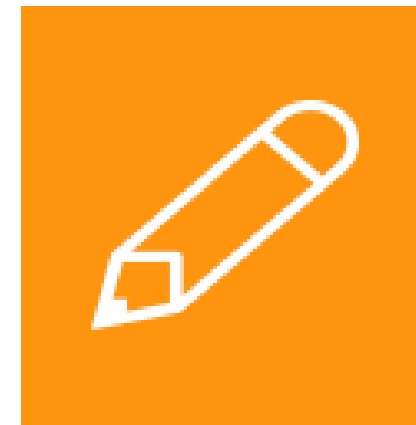


**UCI Samueli**  
School of Engineering



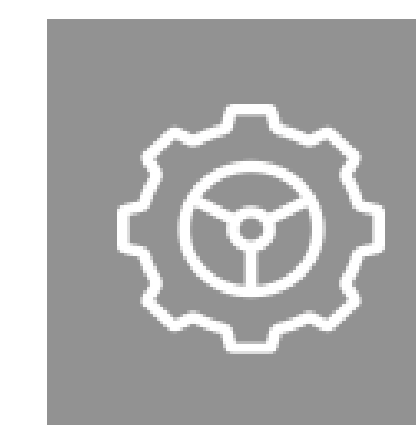
### BACKGROUND

Established in 2015, HyperXite is a team of undergraduate students endeavoring to build a Hyperloop Pod.



### GOAL

HyperXite's goal is to research, design, build and validate a scalable self-propelled pod to demonstrate the feasibility of Hyperloop design concepts at a high pace of innovation.

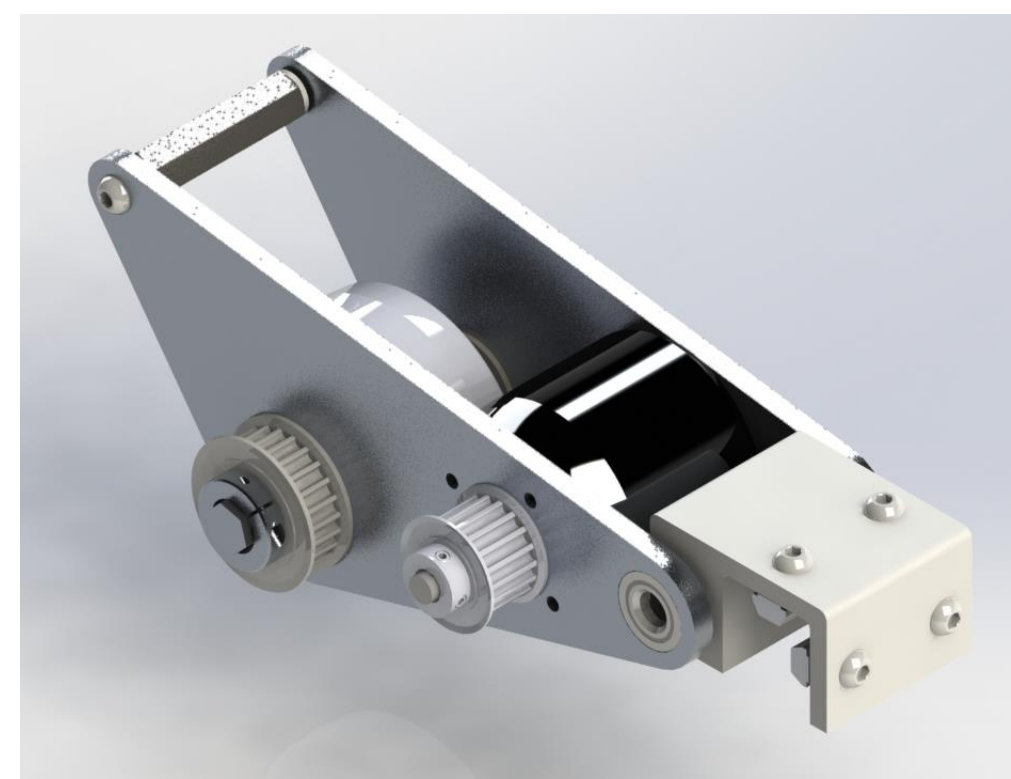


### OBJECTIVES

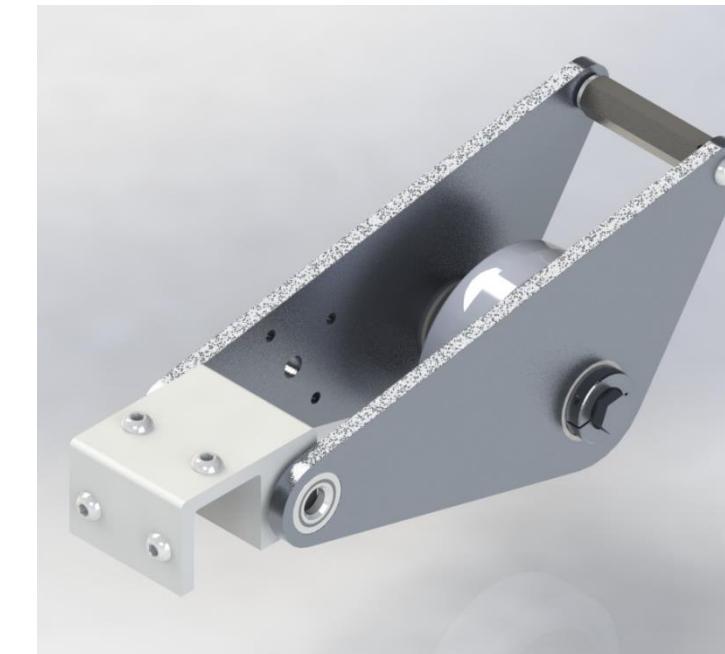
- Real-time pod behavior monitoring.
- Pod state data logging for comparison against models.
- Complete a safe pod run on test track.

### PROPOSED TIMELINE

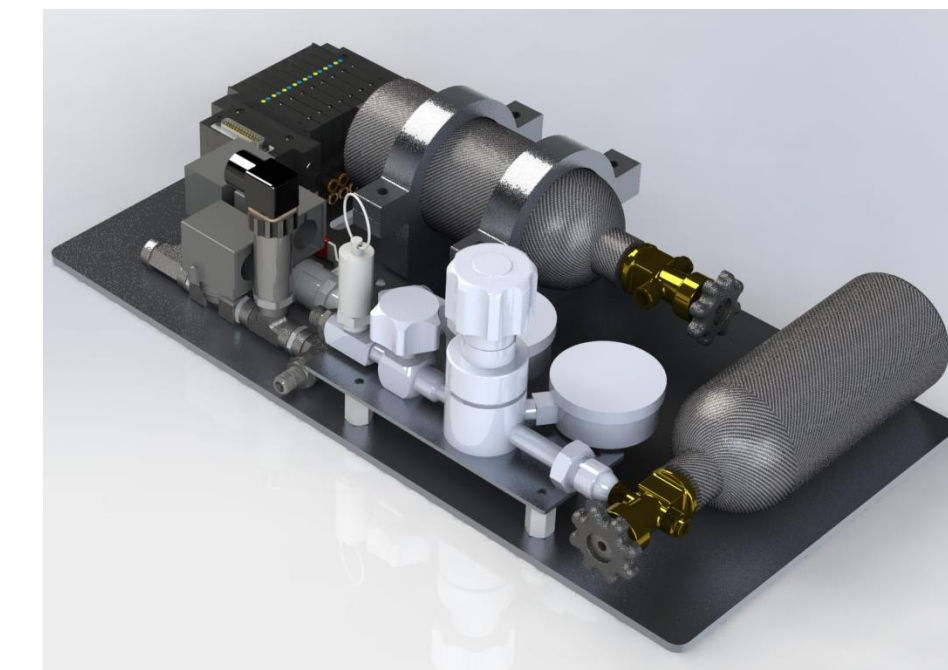
Pod Generation 1 CAD	September 10, 2020
Simulations Completed	October 1, 2020
Pod Generation 2 CAD	November 5, 2020
Procurement and Manufacturing	November 15, 2020
Pod Assembly	January 4, 2021
Functional Testing	February 20, 2021
Testing Ramp-up	April 1, 2021
Design and Manufacturing Updates	April 20, 2021
Final Pod Report	May 5, 2021
Final Testing	May 30, 2021



**Propulsion Assembly**



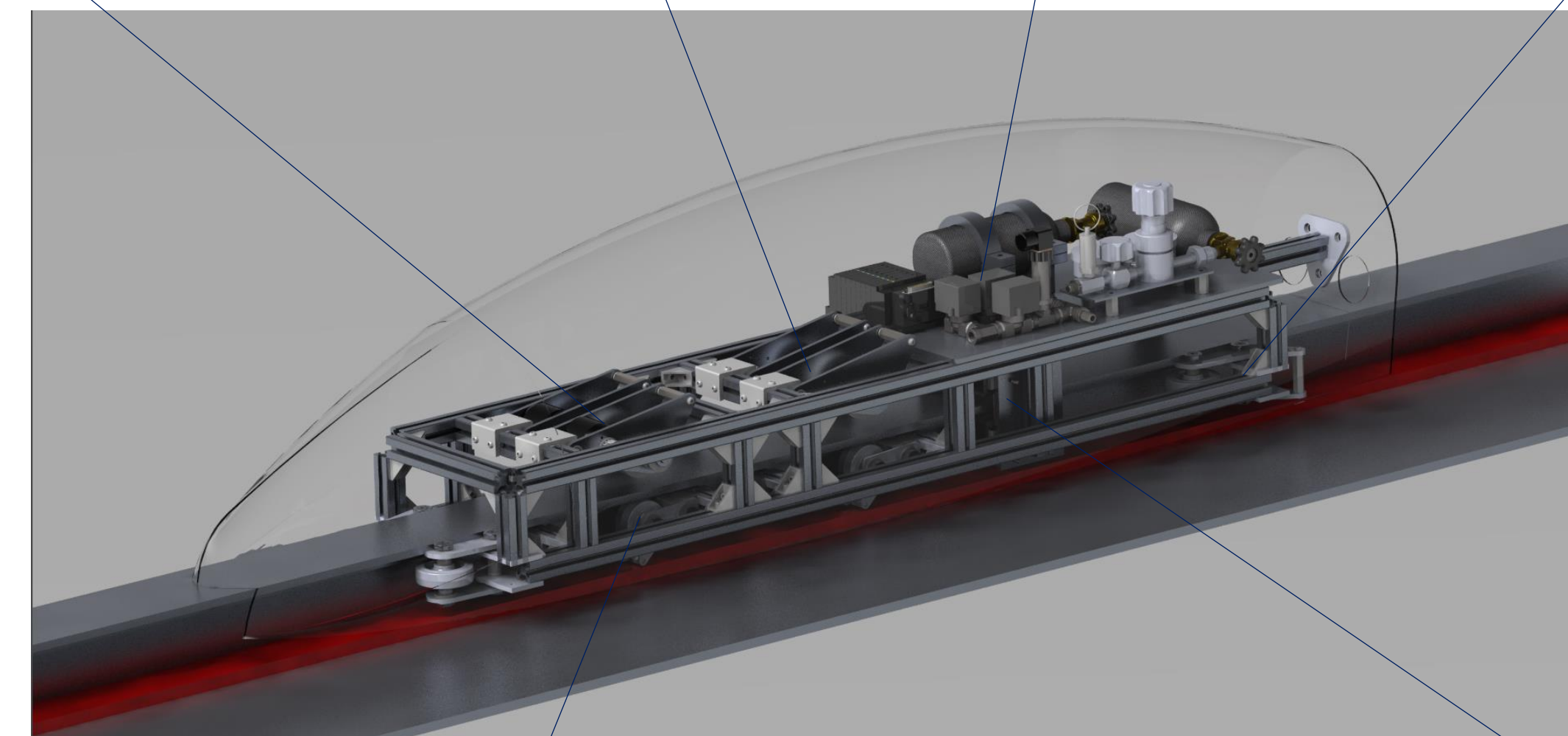
**Topside Stabilization**



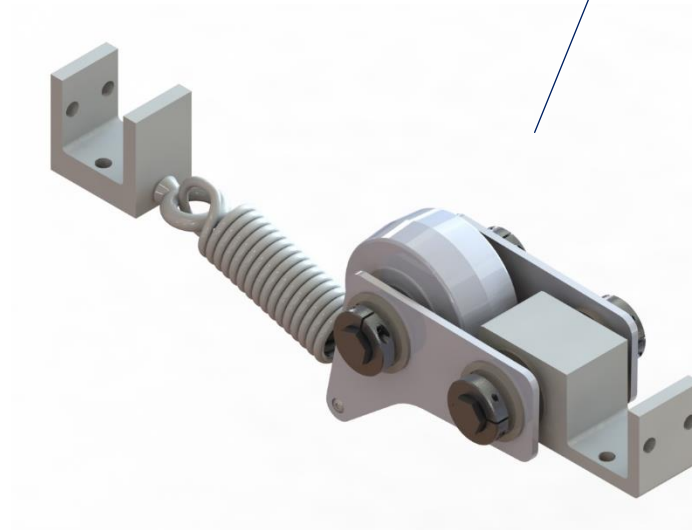
**Pneumatics Assembly**



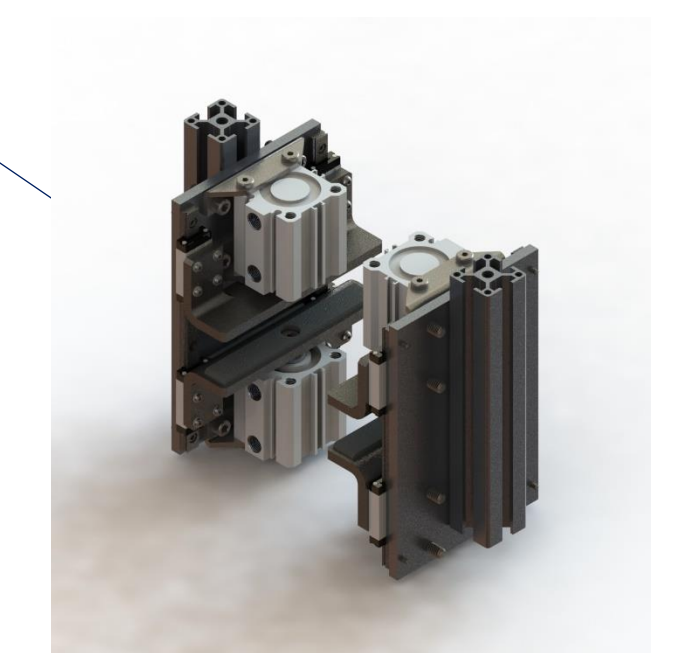
**Lateral Stabilization**



**Chassis**



**Underside Stabilization**



**Braking Assembly**

### OUR ACHIEVEMENTS

January 2016 Design Weekend #5 for Overall Design

January 2017 SpaceX Competition I Top 29 finalists

August 2017 SpaceX Competition II 1 of 6 teams to run in tube

July 2018 SpaceX Competition III Top 22 finalists

July 2019 SpaceX Competition IV Top 22 finalists