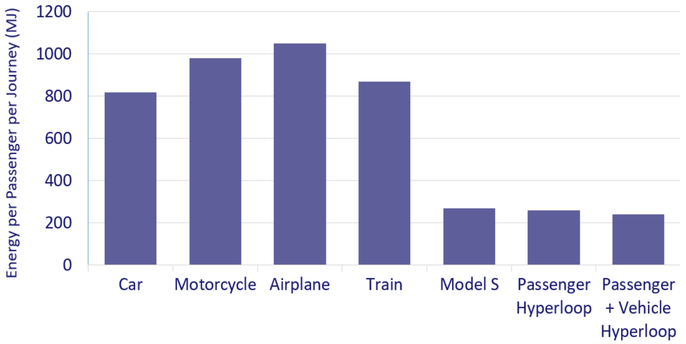
HyperXite

Future of Sustainable and Affordable Transportation

UCI Samueli School of Engineering

BACKGROUND

Energy cost per passenger for a journey between Los Angeles and San Francisco for various modes of transport



HyperXite is a team of undergraduate students aiming to compete in the Fourth SpaceX Hyperloop Pod Competition in the summer of 2019.
The Hyperloop concept, first proposed by Elon Musk in 2013, has the potential to change the way we see the future of affordable and sustainable transportation.

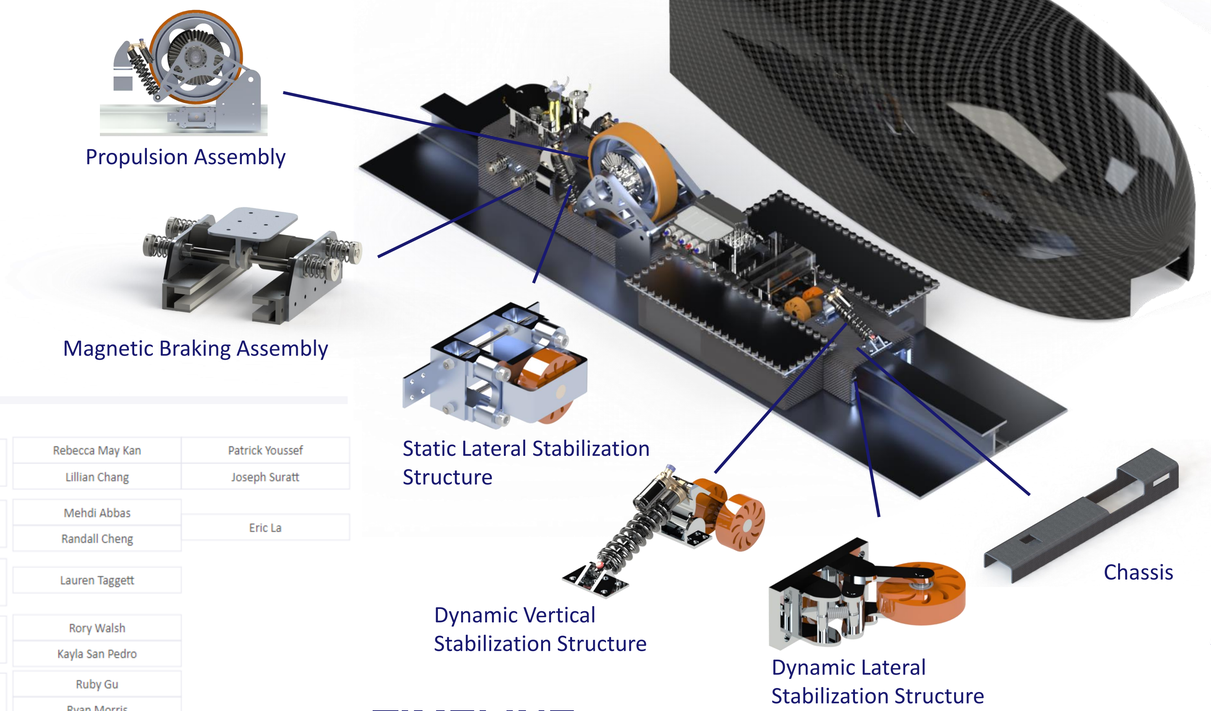
January 2016	January 2017	August 2017	July 2018
Design Weekend	SpaceX Competition I	SpaceX Competition II	SpaceX Competition III
#5 for Overall Design	Top 29 Finalists	1 of 6 teams to run in tube	Top 22 Finalists

GOAL

Build a high speed, self propelled Hyperloop pod and complete a successful vacuum run during the SpaceX Hyperloop Competition IV in Summer 2019.

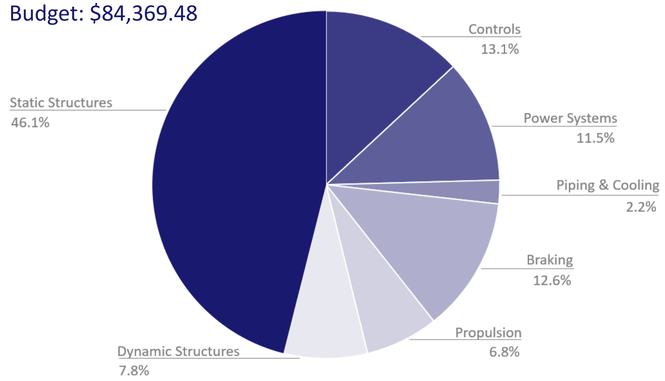
OBJECTIVES

- Top speed of 245 mph
- Vacuum safe
- Real-time pod behavior monitoring
- Stop the pod 100 ft before the end of tube



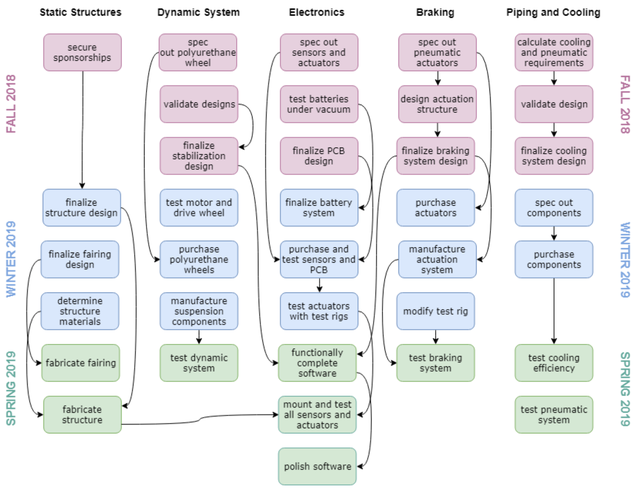
TOTAL POD COST

Budget: $84,369.48



Cost percentage by system

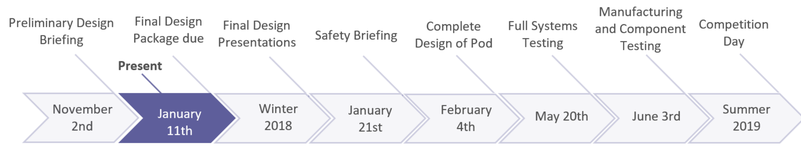
MANUFACTURING PLAN



TEAM ORGANIZATION

Management	Jason Lee, Team Captain, Chief Engineer			
	Adora Tadros, Project Manager			
	Daniella Jimenez, Assistant Project Manager			
	Adrienne Lee, Operations Manager			
Technical	Dynamic Systems	Hemang Mehta, Subsystem Lead	Rebecca May Kan, Lillian Chang	Patrick Youssef, Joseph Suratt
	Electronics	Trevor Yasutake, Subsystem Lead	Mehdi Abbas, Randall Cheng	Eric La
	Piping and Cooling	Richard Liu, Subsystem Lead	Lauren Taggett	
	Simulations	Johnny Pham, Subsystem Lead	Rory Walsh, Kayla San Pedro	
	Static Structures	Mina Elsaker, Subsystem Lead	Ruby Gu, Ryan Morris	
Non- Technical	Lab Management and Safety	Olivia Shin	Volunteers: Khoi Trinh	Kevin Chen
	Outreach	Myron Phan	Haocheng Yu	Youssef Gorge
	Documentation	Vanessa Audrey, Leanna Hao	Jayce Cao	Maxine Apoderado

TIMELINE



ADVISORS

Roger Rangel	Kyle Ferreira	Arwa Tizani
Faculty Advisor	*Graduate Advisor*	*Graduate Advisor*
rhrangel@uci.edu	krferrei@uci.edu	atizani@uci.edu

Jason Edward Lee (jasonel@uci.edu) Adora Anoud Tadros (aatadros@uci.edu)

HyperXite.com