HYPERXITE
Future of Sustainable and Affordable Transportation

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.

TEAM ORGANIZATION

MANAGEMENT
- Professor Roger H. Rangel
  Faculty Advisor
  rhrangel@uci.edu
- Adora Tadros
  Graduate Advisor
  aatadros@uci.edu
- Johnny Pham
  Char Engineer
- Danila Jimenez
  Project Manager
- Saso Nguyen
  Engineer Systems
- Patrick Yousef
  Undergraduate Advisor

DESIGN TEAM
- Dynamic Structures
  - Myriam Pham
  - Abdul Jauhar
  - Hanh Phan
- Static Structures
  - Homei Sagawa
  - Subayem Lead
  - Lake Cross
  - Subayem Lead
  - Niaz Ullah
  - Garett Sulaiman
  - Zainab Saim
  - Tyler Johnson
  - Sacha Quesada
  - Magid Naser
  - Oussama Fadil
  - Rizky Tanjung
  - Ye Miao Yang
  - Nhu Ela
  - Imane Alqasem
  - Alvin Alqasem

POD ASSEMBLY
- Final Pod Report
  June 20, 2020
- Final Testing
  June 5, 2020
- Design and Manufacturing Updates
  May 15, 2020
- Testing Ramp-up
  April 24, 2020
- Functional Testing
  March 13, 2020
- Pod Assembly
  February 28, 2020
- Procurement and Manufacturing
  February 14, 2020
- Pod Generation 2 CAD
  January 24, 2020
- Pod Generation 1 CAD
  January 17, 2020
- Simulations Completed
  January 4, 2020

TOTAL POD COST

http://hyperxite.com

OUR ACHIEVEMENTS
- January 2016
  Design Weekend #5 for Overall Design
- January 2017
  SpaceX Competition I Top 20 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

Lateral Stabilization
Propulsion Assembly
Underside Stabilization
Topside Stabilization

TARGET OF THE FUTURE