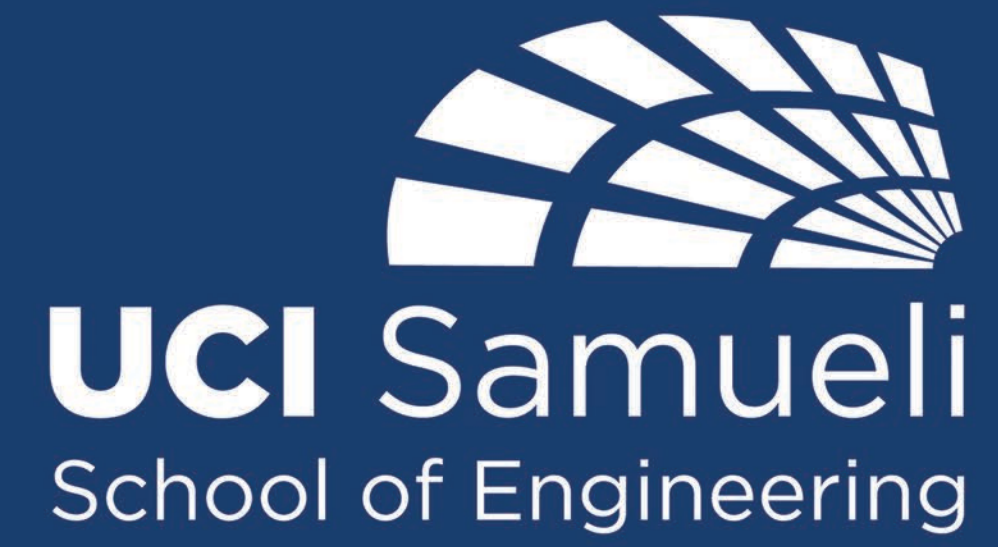




Rocket Project

Advisor: Professor Mark Walter



BACKGROUND

- First liquid propellant rocket at UC Irvine
- Preparing engineers for aerospace industry

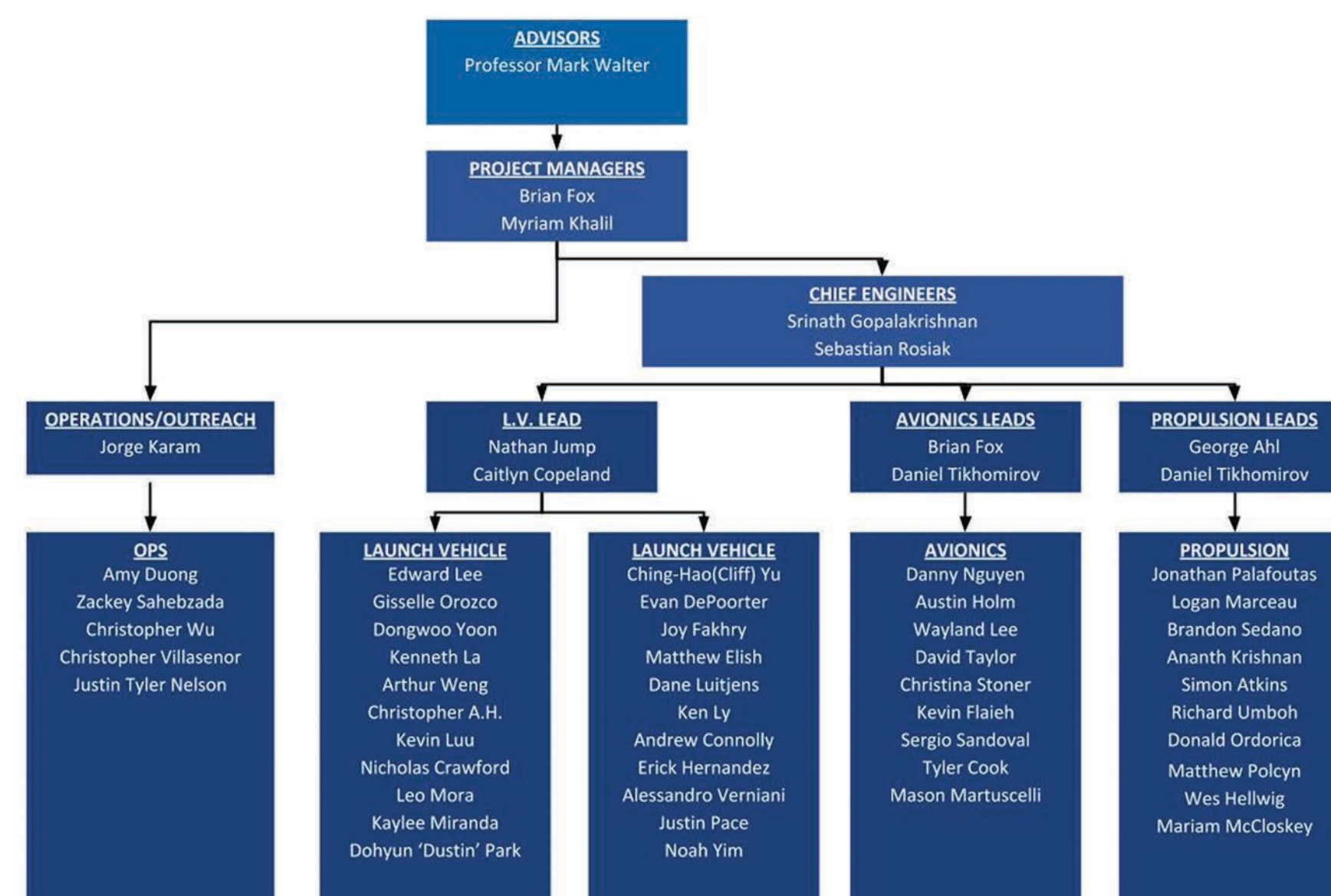
GOALS

- Conduct successful static test fire
- Win the Base 11 Space Challenge by being the first university to launch a liquid fueled rocket to the Karman Line

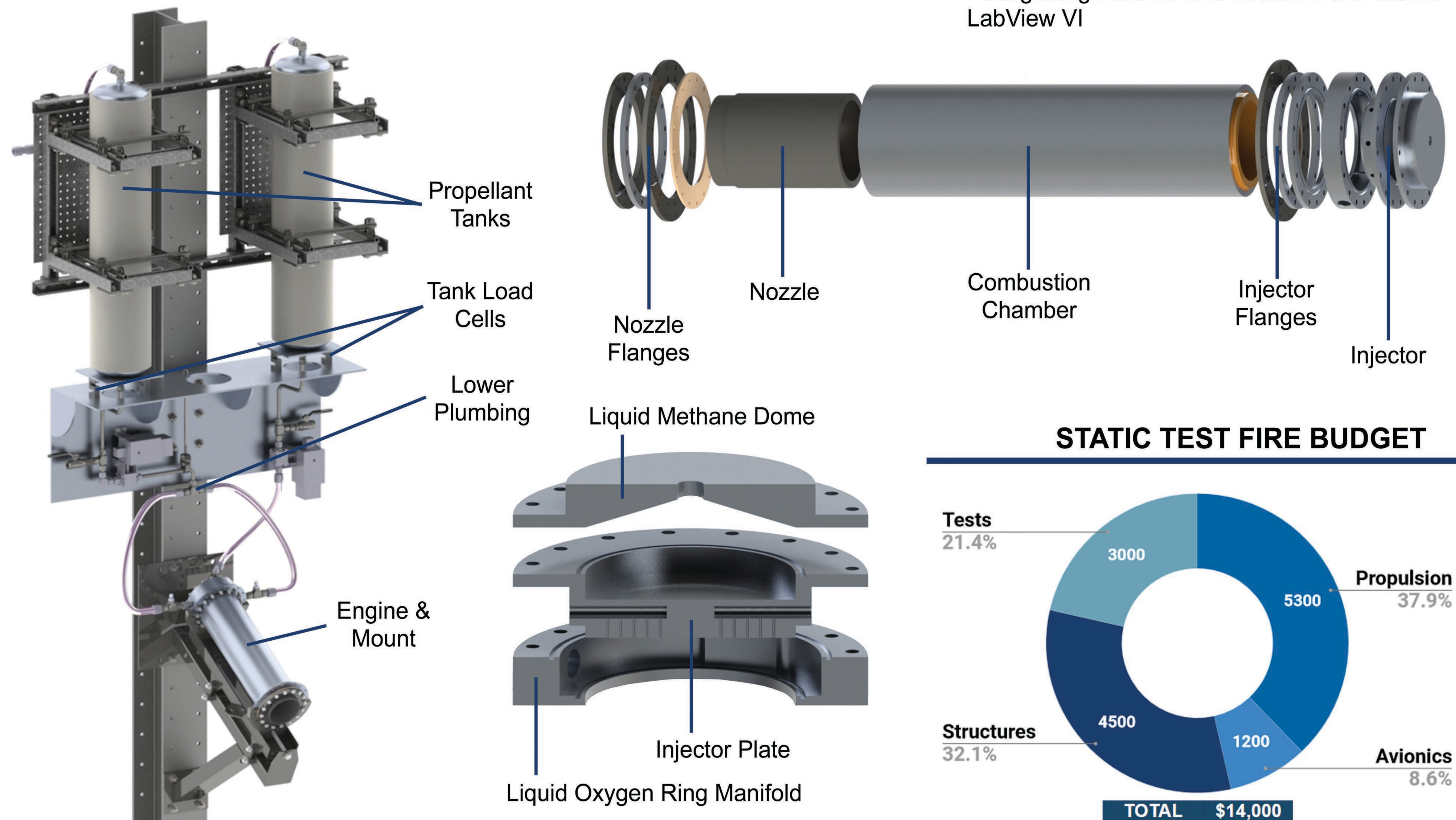
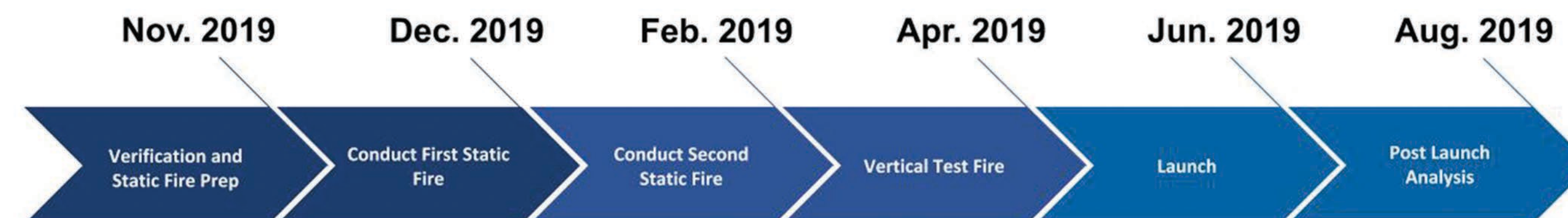
OBJECTIVES

- Engine Design Thrust: 1300 lbs
- Test Stand with Data Collection System and Safety Features
- Base 11 Rocket Altitude: 100 km
- Dynamic Flight Control System
- Single Stage Liquid Engine Design
- Lightweight Rocket Structure

TEAM STRUCTURE



TIMELINE



PROGRESS

- Completed test stand, plumbing system, and assembly procedures
- Developing plumbing leak test, system flow test, and cryogenic compatibility test procedures
- Manufacturing engine assembly and retrofitted engine mount
- Integrating sensors and actuators into central LabView VI

STATIC TEST FIRE BUDGET

