



Rocket Project

Advisors: Professor Mark Walter & Professor Ken Mease



BACKGROUND

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

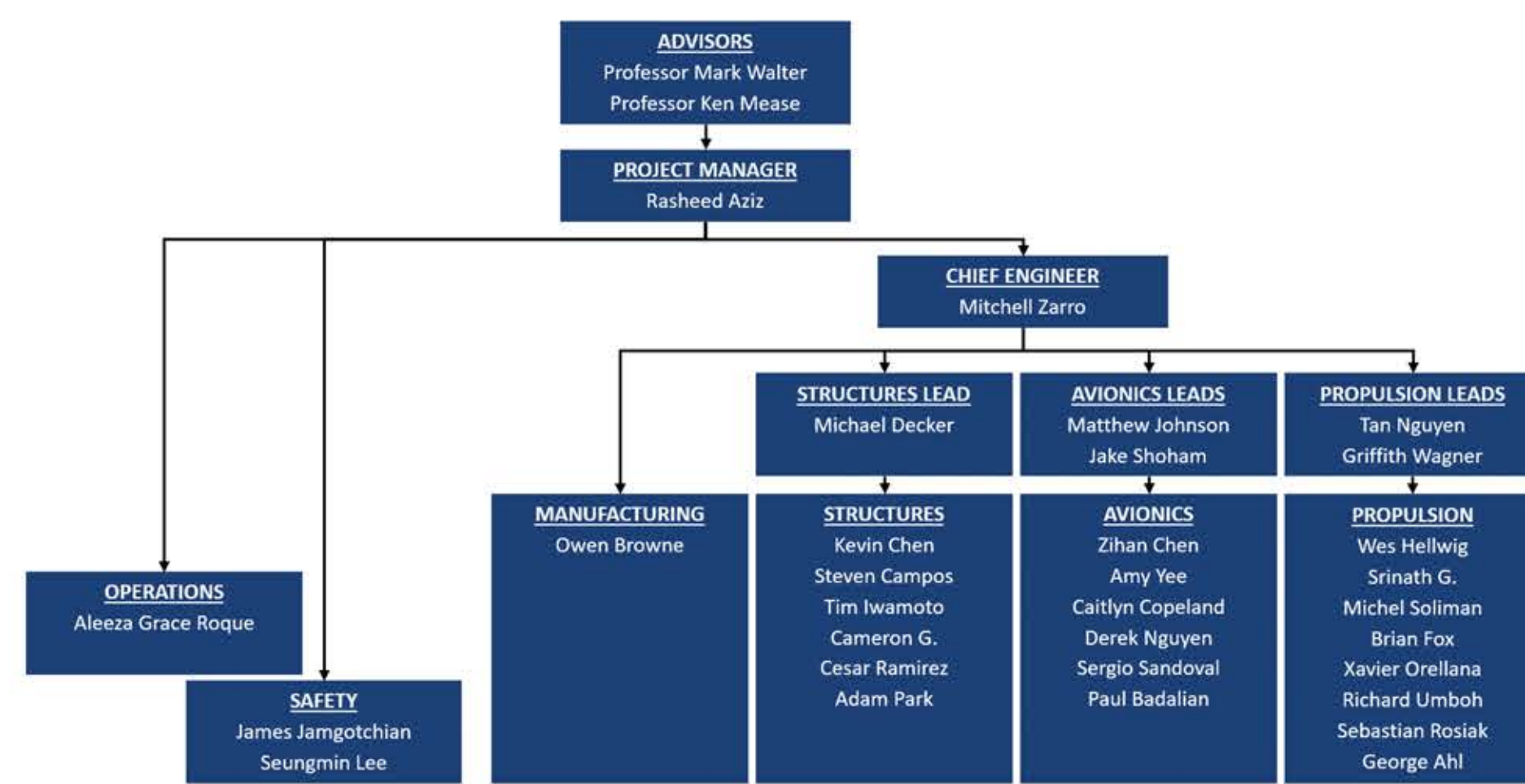
GOALS

- Conduct successful static test fire
- Win the Base 11 Space Challenge
- Be the first university to launch a liquid fueled rocket into space (Karman Line)

OBJECTIVES

- Static Test Fire Thrust: 1300 lbs
- Test Stand with Data Collection System
- Base 11 Rocket Altitude: 100 km
- Dynamic Flight Control System
- Single Stage Liquid Engine Design
- Full Rocket Structure Design

TEAM STRUCTURE



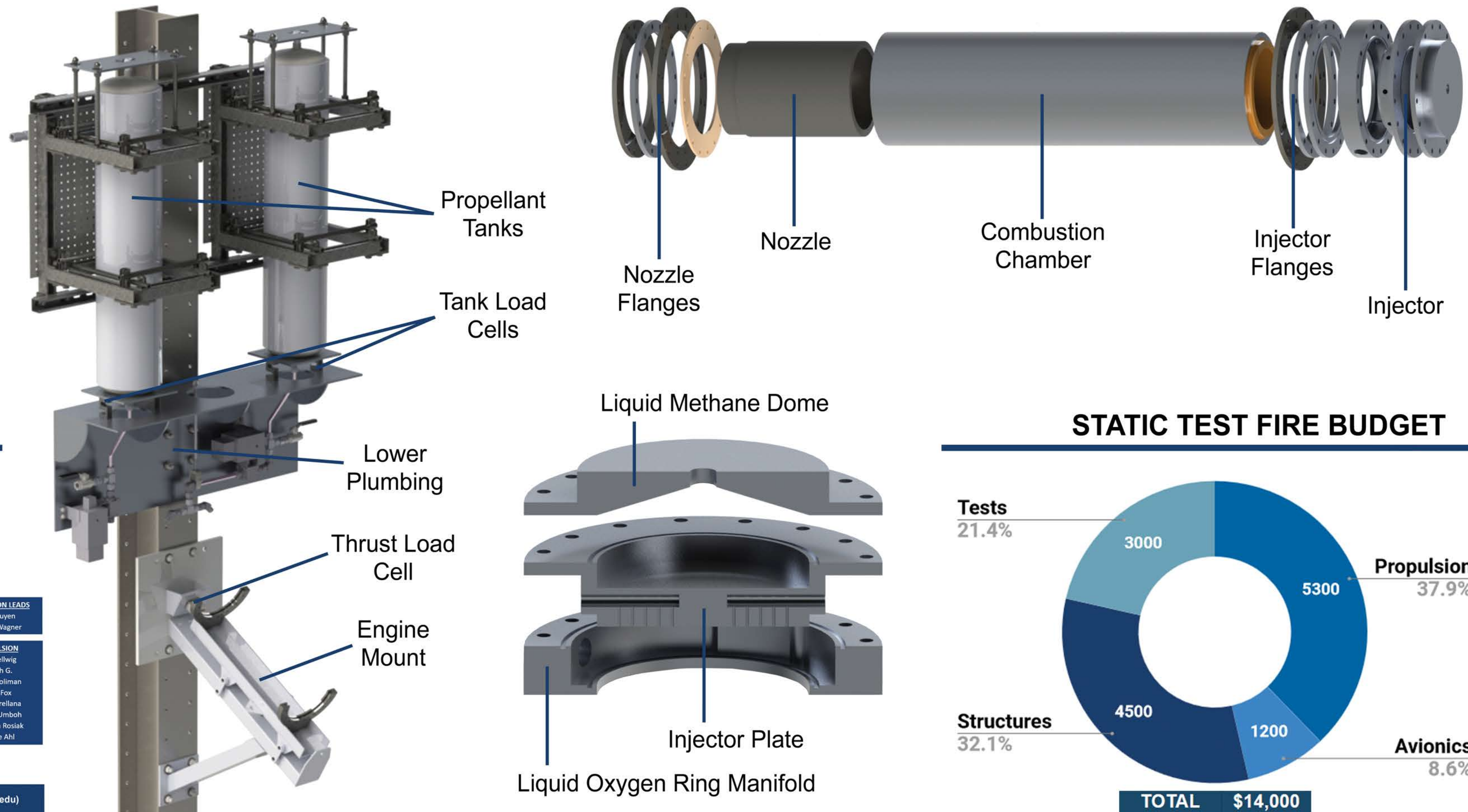
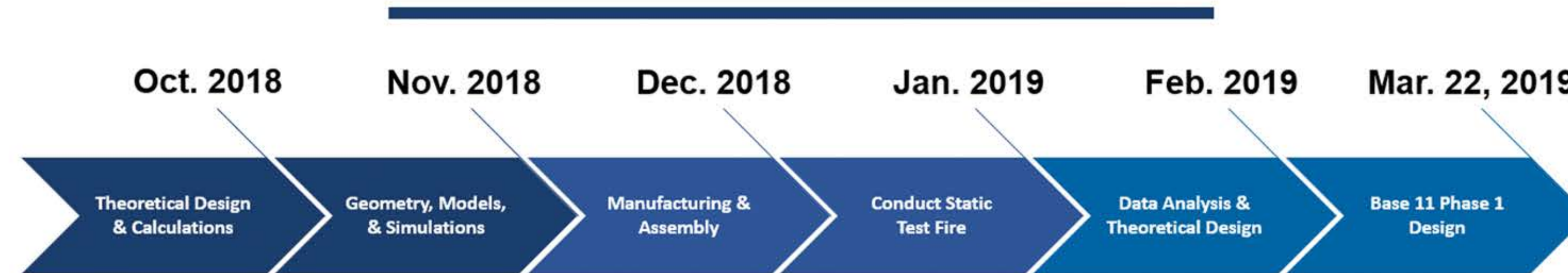
Project Manager: Rasheed Aziz (raaziz@uci.edu)

Chief Engineer: Mitchell Zarro (mitchezm@uci.edu)

PROGRESS

- Finalized sensor & actuator statements of work
- Completed engine mount retrofit
- Verified injector, combustion chamber, and nozzle parameters
- Currently manufacturing test stand and engine

TIMELINE



STATIC TEST FIRE BUDGET

