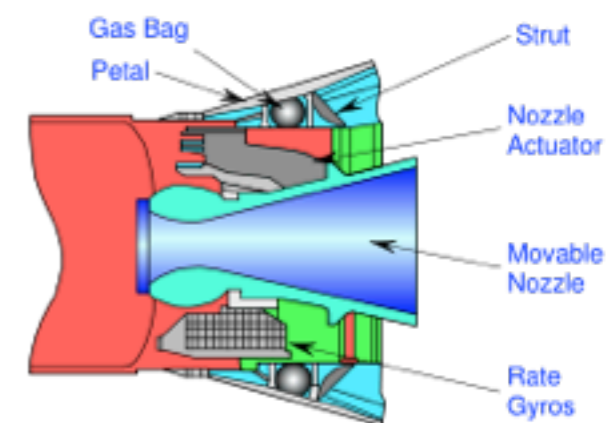
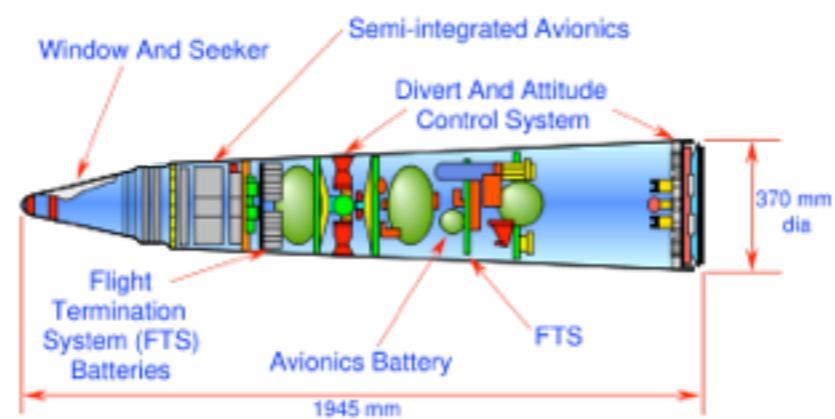
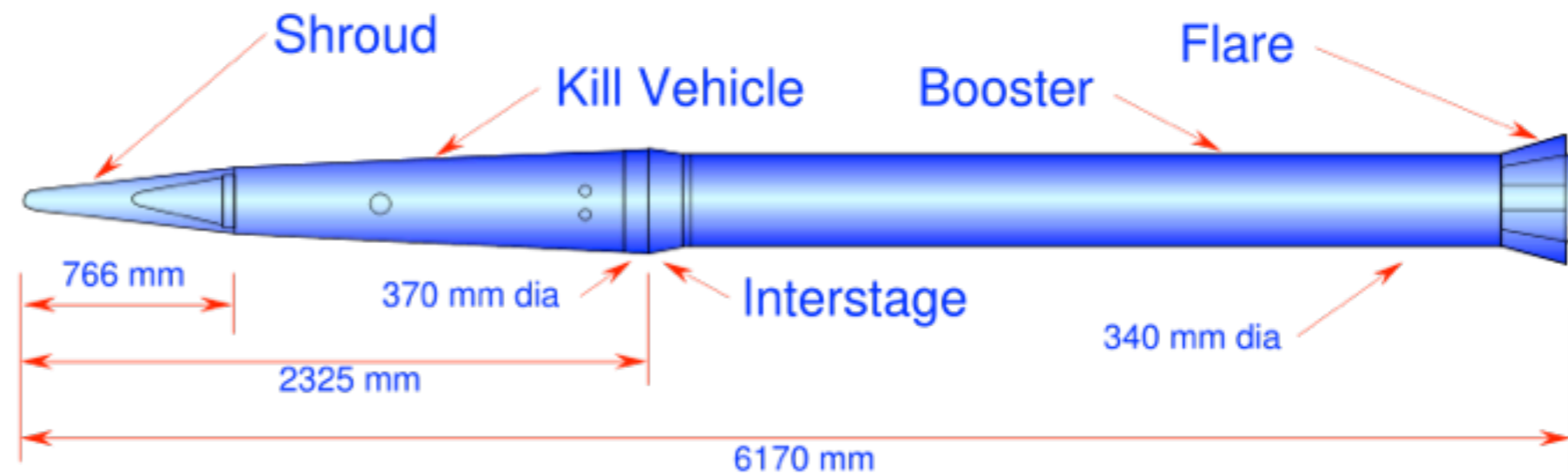
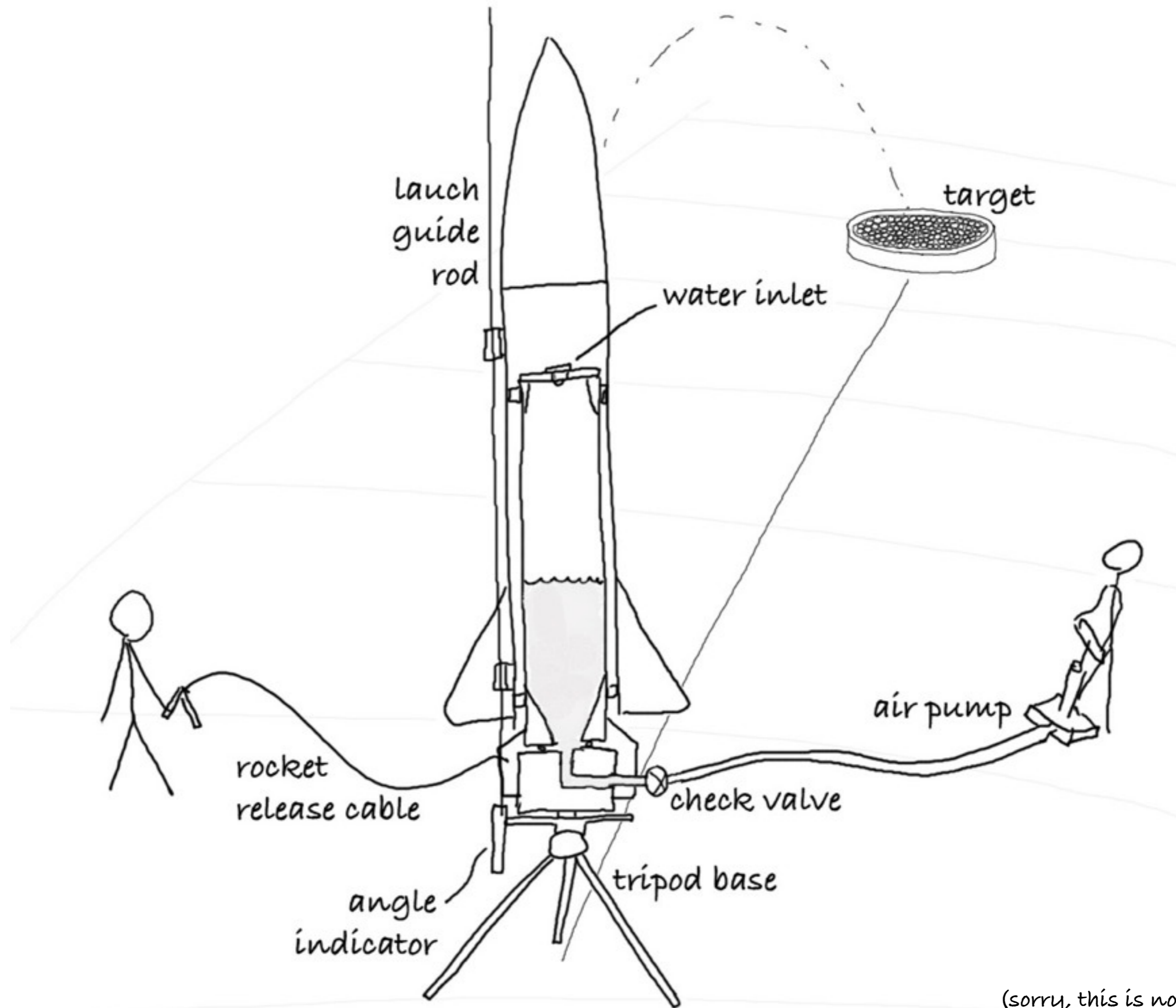




THAAD test launch  
Pacific Missile Range  
Kauai, Hawaii






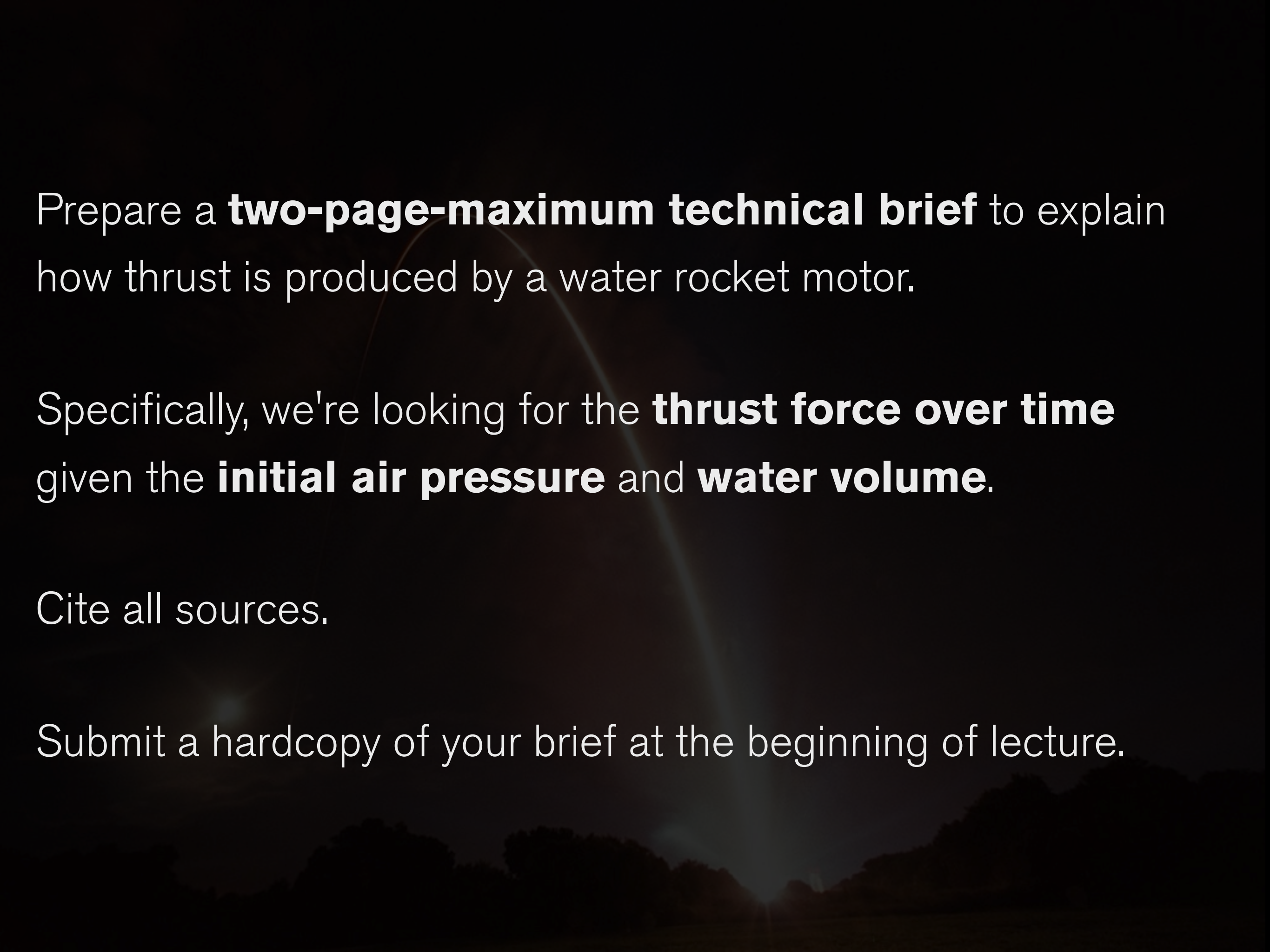


(sorry, this is not to scale)





Jan 23	Project begins
Jan 30	Part A: Thrust Brief
Feb 6	Part B: Thrust Challenge
Feb 7	Team formation
Feb 13	Part C: Dynamic Analysis
Feb 20	Part D: Stability Analysis
Feb 27	Launch day!
Feb 29	Part E: Launch Debrief

A background image showing a water rocket launch at night. A bright, curved light trail from the rocket's engine extends from the bottom center towards the upper left. The bottom of the image shows dark, silhouetted trees against a dark sky.

Prepare a **two-page-maximum technical brief** to explain how thrust is produced by a water rocket motor.

Specifically, we're looking for the **thrust force over time** given the **initial air pressure** and **water volume**.

Cite all sources.

Submit a hardcopy of your brief at the beginning of lecture.

# Project Personnel

Dr. Jonathan Fiene

Philip Dames (Ph.D. student)

Nick McGill (MEAM Junior)

Michael Kofron (MEAM Junior)

## EXTERNAL ADVISORS:

Dr. Katherine Kuchenbecker (dynamics)

Dr. Haim Bau (thermodynamics)

Dr. Bruce Kothmann (aerodynamics)