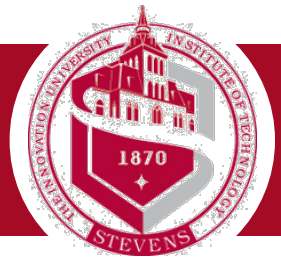




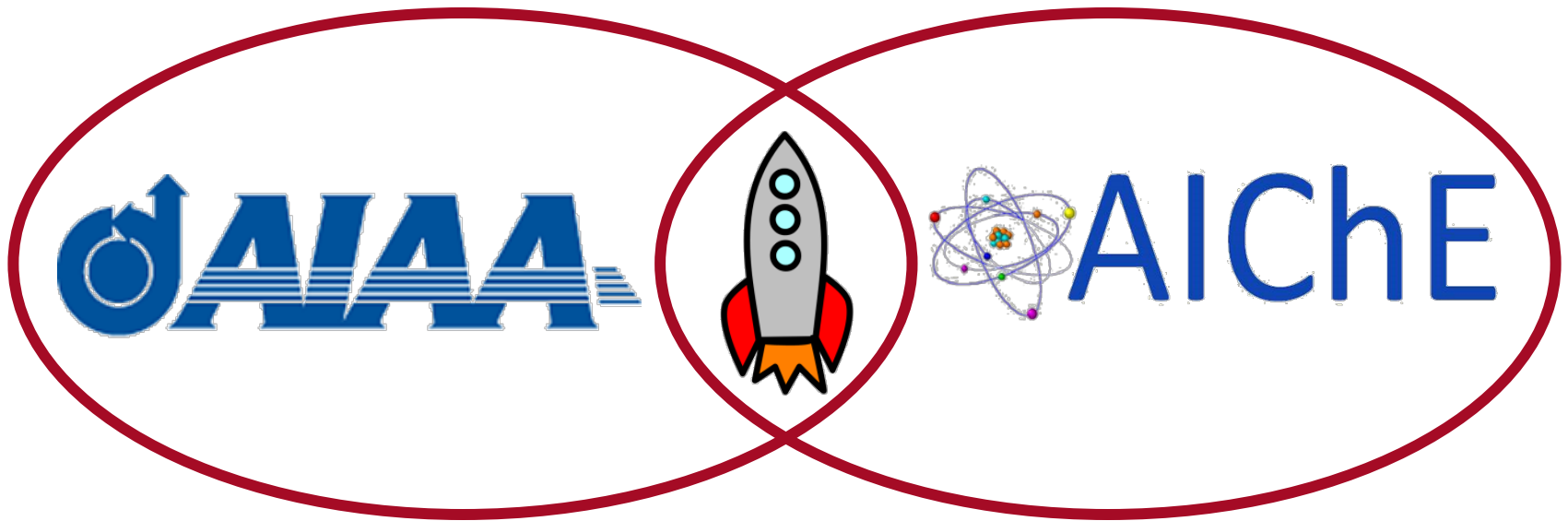
AIAA/AIChE

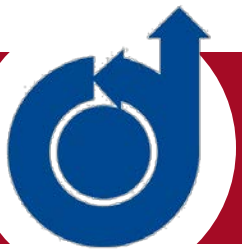


Rocket Project Kickoff Meeting

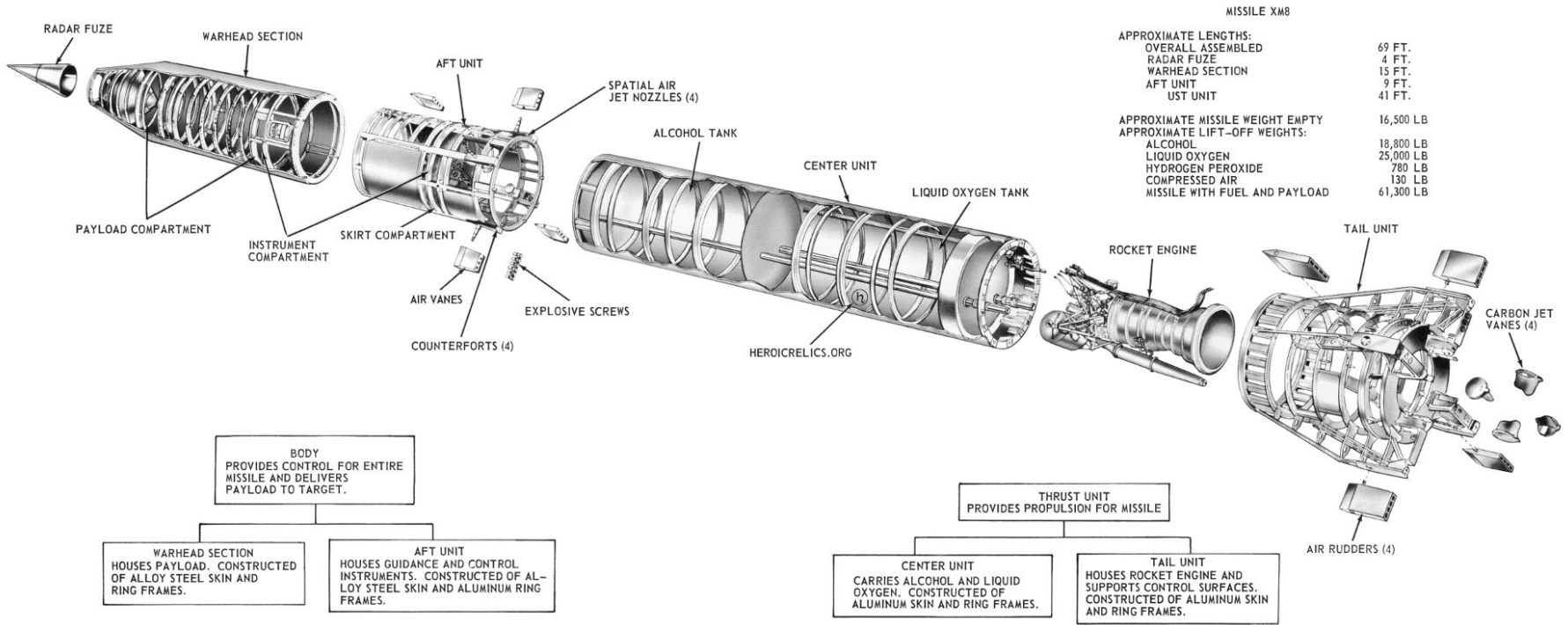


Jolly Cooperation



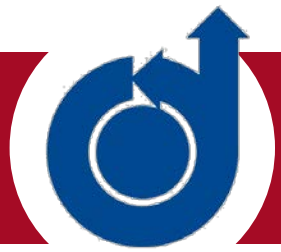


End Goal



Ballistic Missile Shell (Exploded View)

(not really)



Project Overview

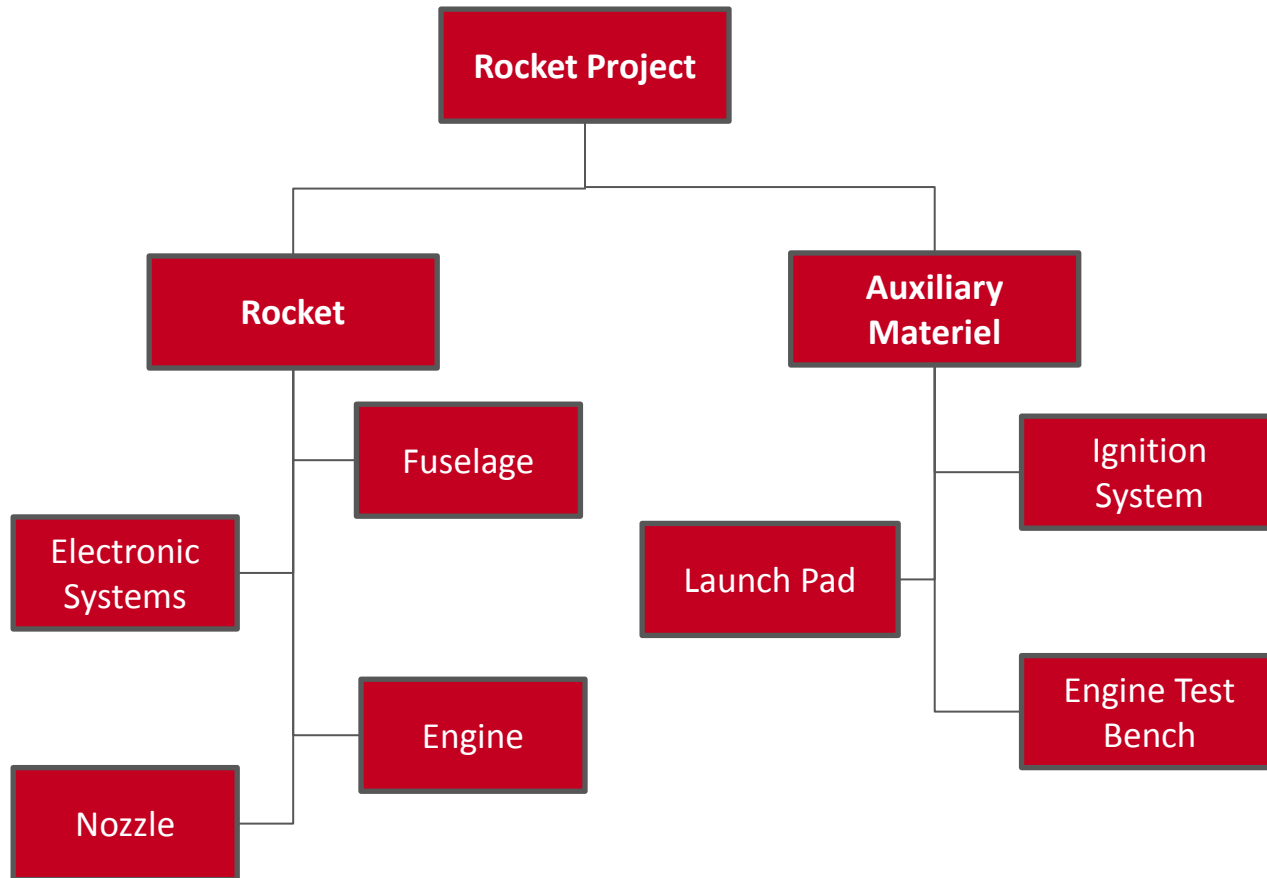


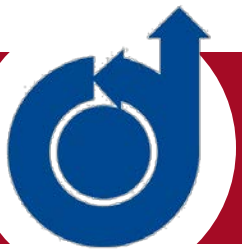
- Design Rocket(s)
- Make Rocket(s)
- Test Rocket(s)
- Launch Rocket(s)





Work Breakdown

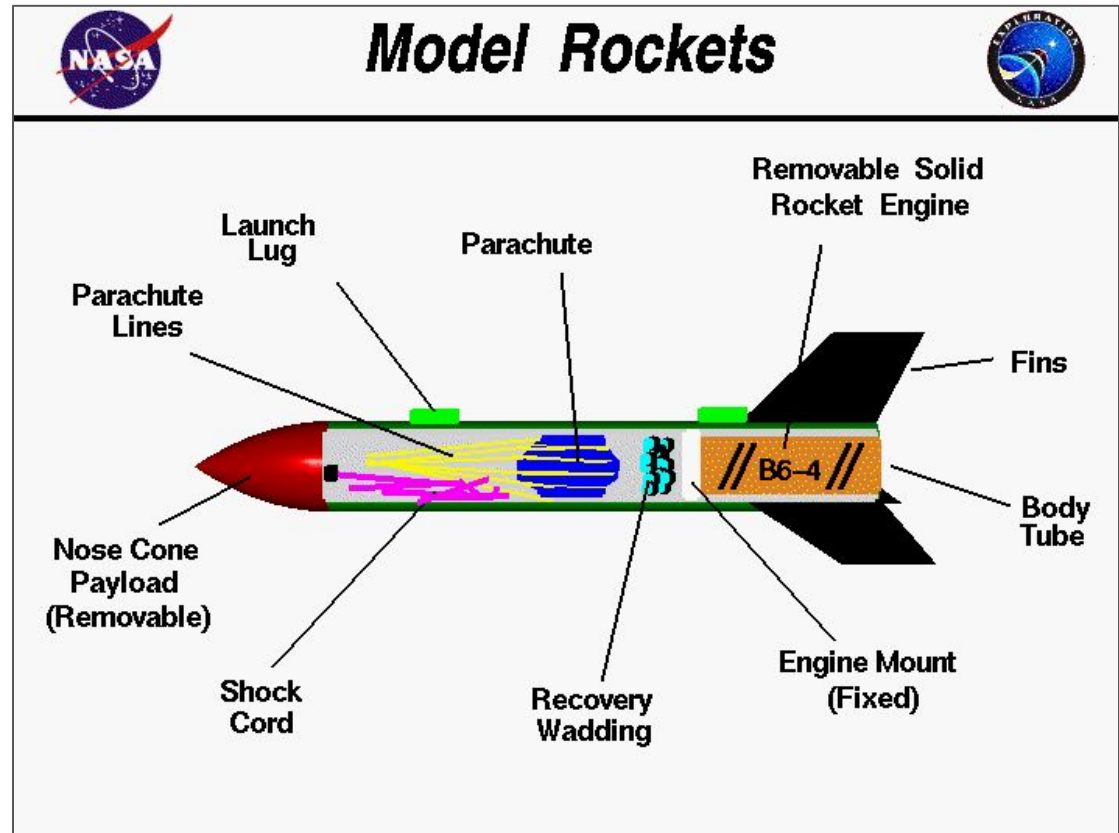




Work Breakdown

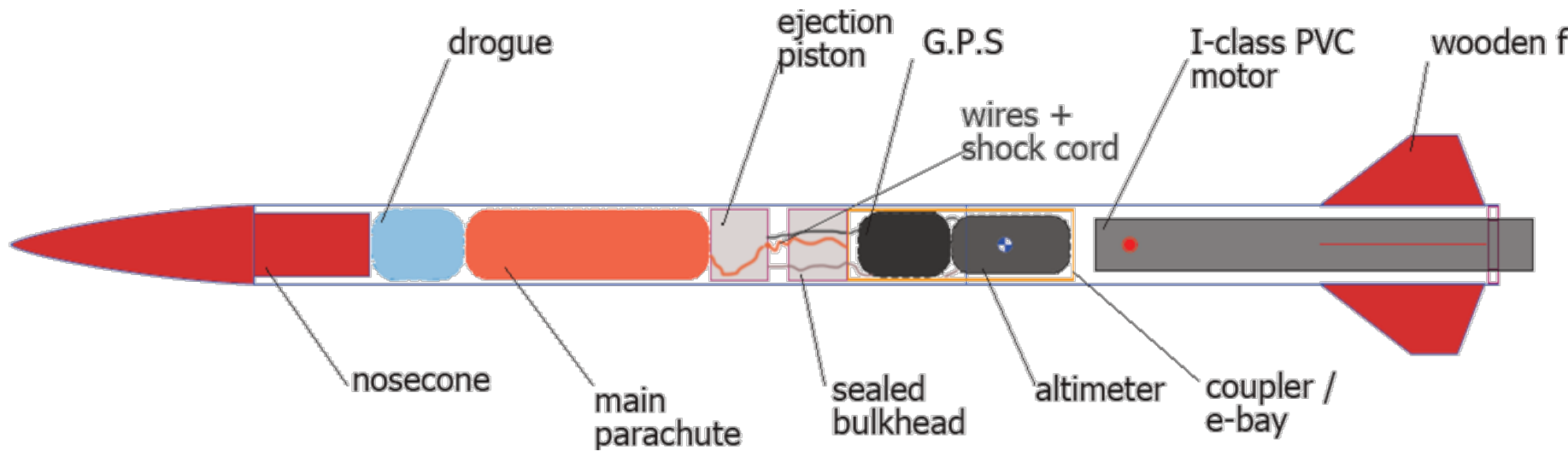


<input type="checkbox"/> Rocket
<input type="checkbox"/> Fuselage
Nose Cone
Body
Fins
Fire Wall
<input type="checkbox"/> Electronic Systems
GPS
Altimeter
Parachute Deployment System
Power Source
<input type="checkbox"/> Engine
Casing
Fuel
Nozzle
<input type="checkbox"/> Auxiliary Materiel
<input type="checkbox"/> Ignition System
Pyrophore (Igniter)
Cables
Control Box
<input type="checkbox"/> Engine Test Bench
Vice
Blast Shield
Control System (Labview?)
<input type="checkbox"/> Launch Pad
Anchoring Rod
Base Plate
Adjustable Legs





Not So Exploded View





RCandy



- What is rocket candy?
 - Sugar
 - KNO_3
 - Corn Syrup





Timeline



- Order materials: This week
 - Need to finalize MOC choices
- Build and test motors: When Materials Arrive
 - Need test stand & ignition system first
- Build fuselage: When Materials Arrive
 - Start with designs of fins and nosecone
- Build test stand: ??
 - After designs of motors and fuselage are finished



What we need



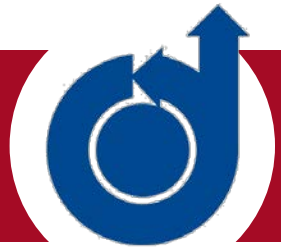
- Research
- Team Leaders for each subsys
 - Fuselage
 - Electronics
 - Parachute deployment
 - Engine/Testing
 - Ignition System/Launch Tower



Other concerns



- Payload
 - An egg?
 - A GoPro or other camera?
 - Science stuff?
 - A rubber duck astronaut?
 - ~~A warhead?~~
- Parachute Deployment System
 - Evaluate different options.



Videos



<https://www.youtube.com/watch?v=5NgE6z3rfFY> –making fuel

<https://www.youtube.com/watch?v=AniMDXIARiA> – k-class rocket launch