

PUFFIN-1 SYSTEM ARCHITECTURE

SRAD NOSE CONE

Tangent Ogive Nose Cone

Bi-axial Fibreglass Sleeves + MGS LR285 & LH287 | Wet Layup

Aluminium Nose Tip | Lathe

SRAD BODY TUBES

Main Chute Bay + Drogue Chute Bay + Motor Mount Tube

7781 E-glass Fabric + MGS LR285 & LH287 | Wet Layup

Axial Compression Test : Failed at 90kN (25 S.F.) | 5585H Instron

RECOVERY

Main Chute: 64" Toroidal, Cd = 2.2 | Fruity Chutes

Drogue Chute: 18" Elliptical, Cd = 1.3 | Fruity Chutes

4F Gun Powder + MGS Firewire Initiator for Ejection Charges

SRAD Ground Station UI + SRAD Yagi Antenna

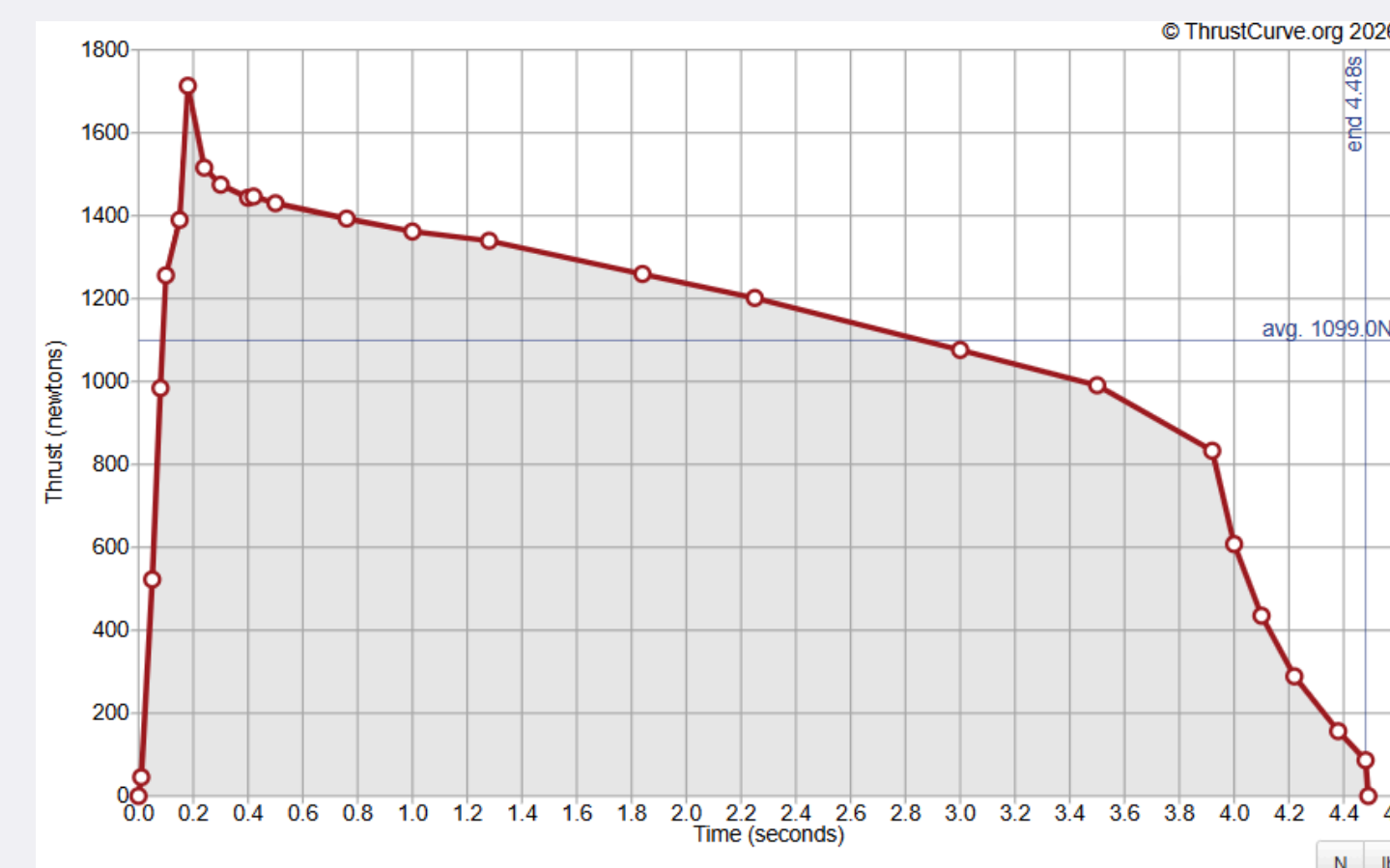
COTS PROPULSION

5015L1115 Classic Propellant

CTI Pro 75 6G Motor Casing

4.5s Burn Time

1713.3 Max Thrust

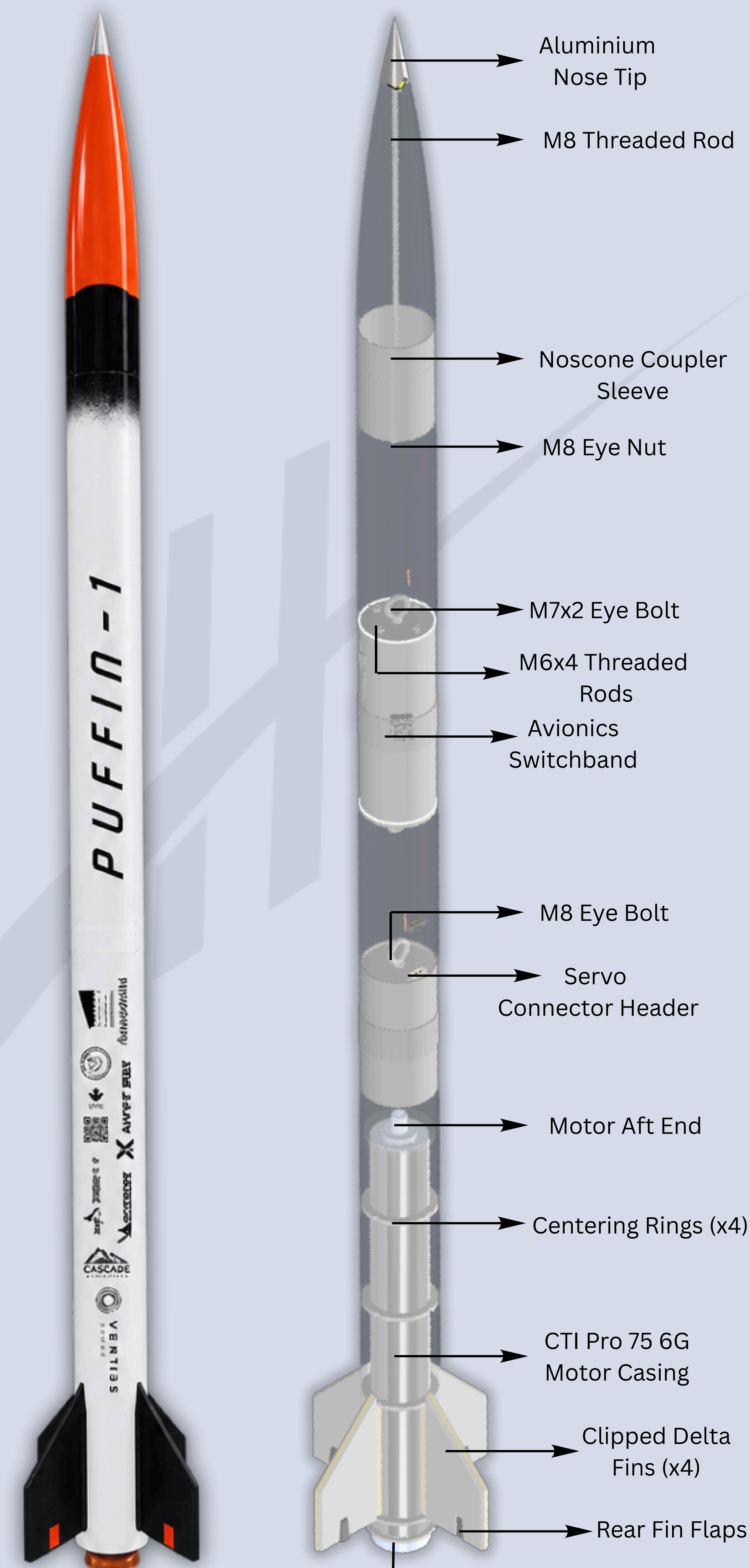


SRAD FIN CAN

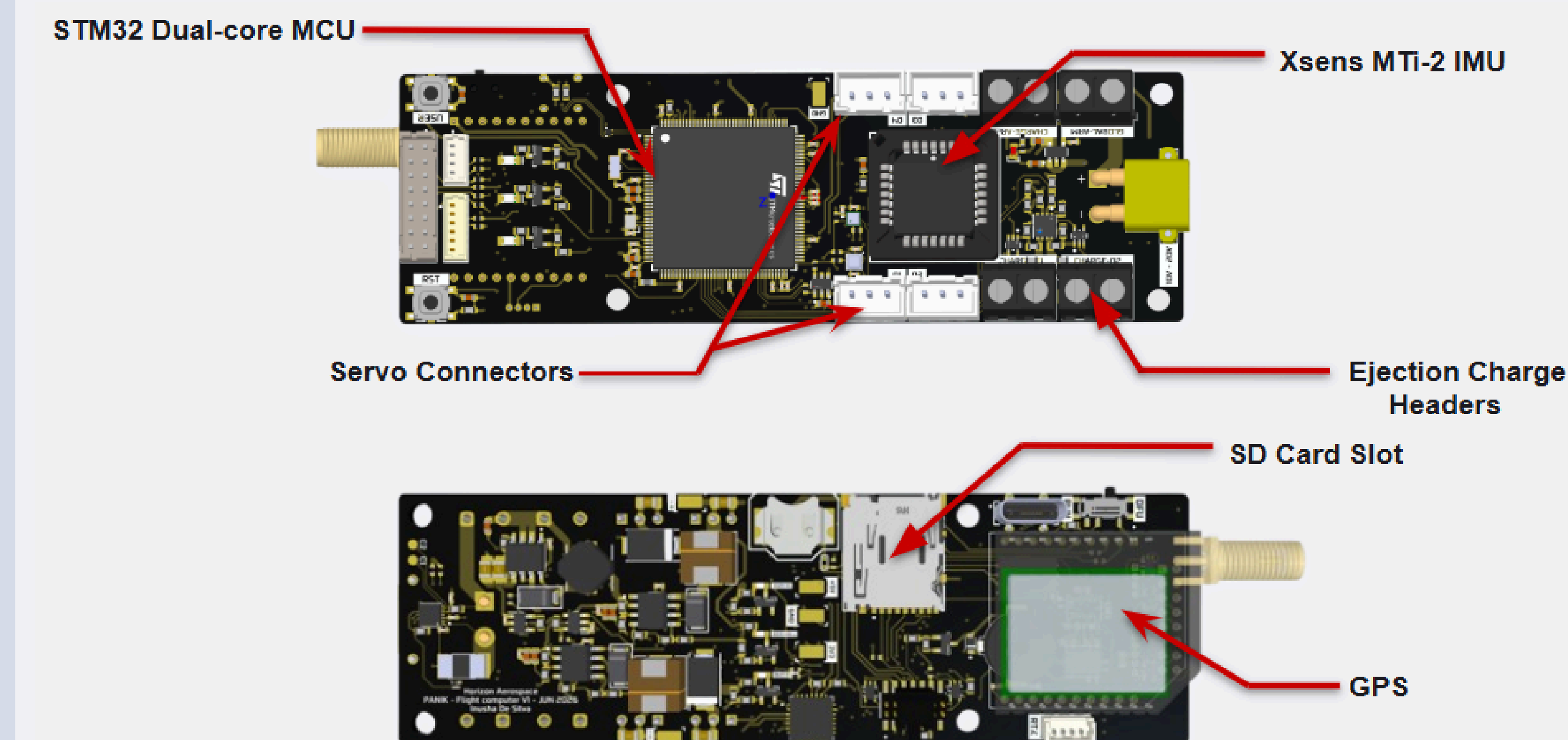
4 Symmetrical Clipped Delta Fins

SG-200 ¼ " Fibreglass CNC'ed Core + 3D Printed Fillers

Embedded Servos for Roll Control

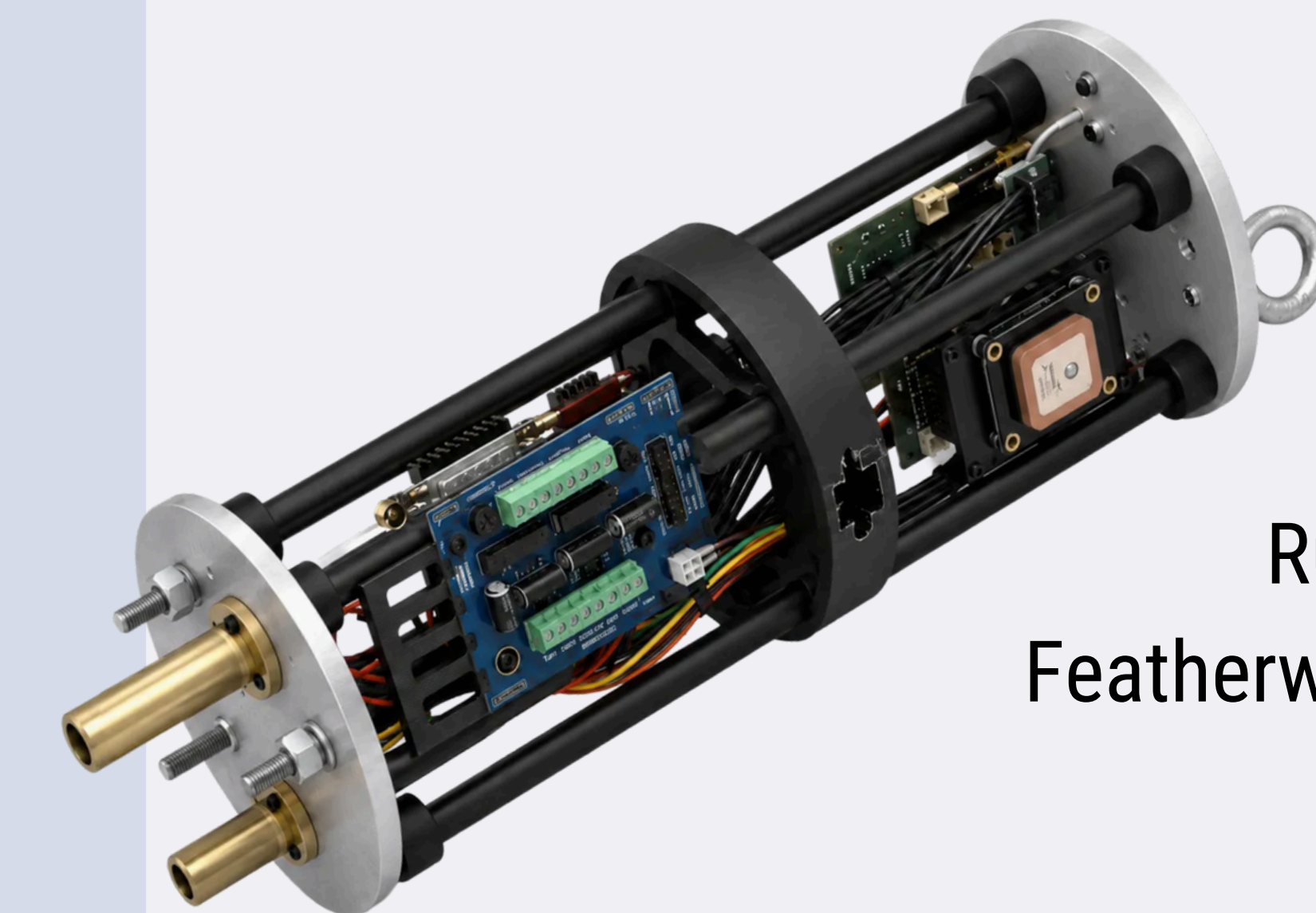


SRAD FLIGHT COMPUTER



Programmed in Rust using Embassy

AVIONICS BAY



SRAD Flight Computer

Camera Module PCB

RFD900x Radio

DJI 04 Air Camera

RunCam Split 4 Camera (x2)

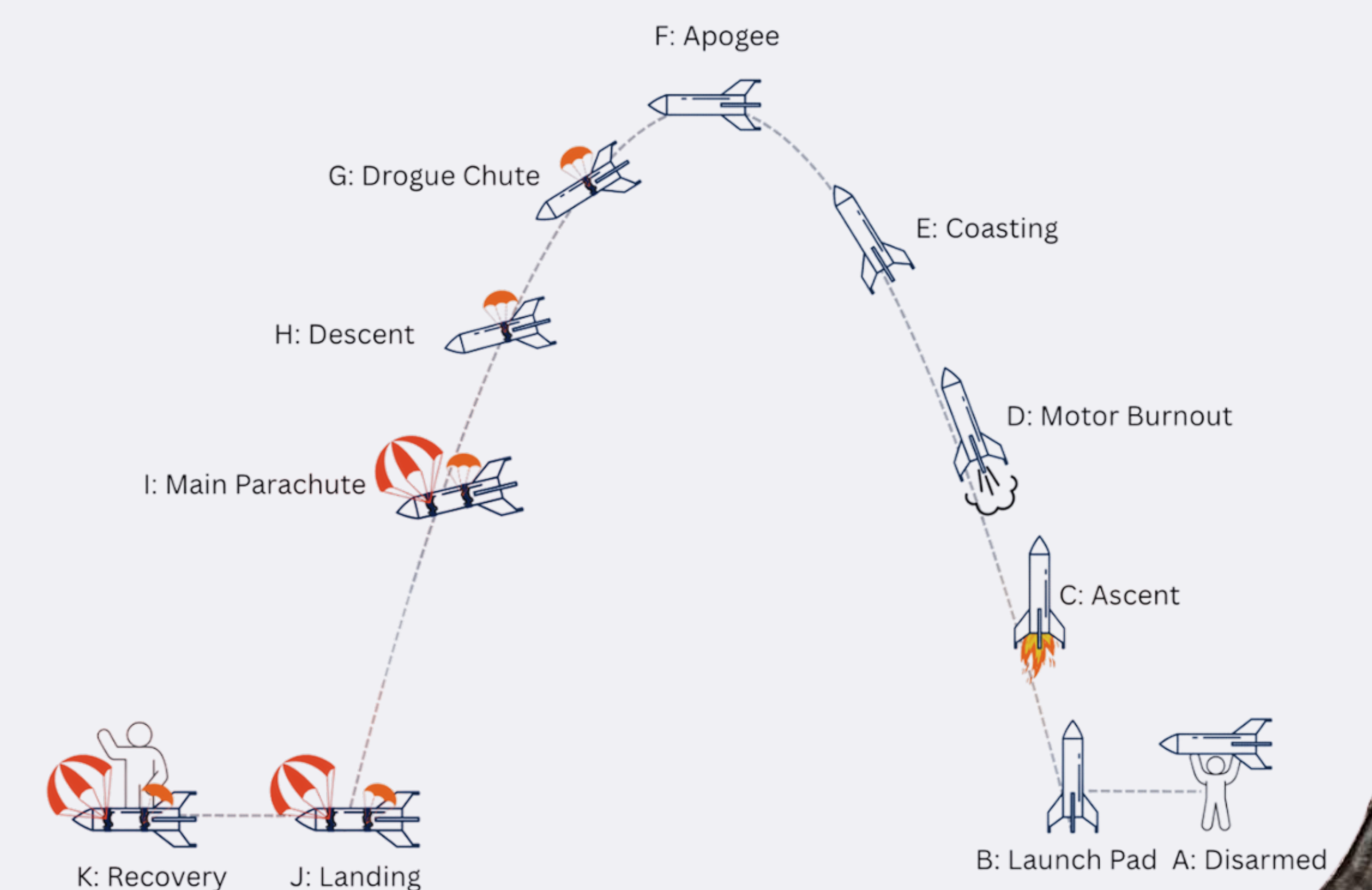
Featherweight GPS (COTS Back up)

RRC3+ (COTS Back up)

Aluminim Bulkhead | CNC

Ejection Charge Canisters | Lathe

STAGES OF FLIGHT



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