



## Problem

- Near-peer adversaries are gaining advanced drone capabilities
- Pose a growing threat to US ground forces
- Current countermeasures are too expensive and lack production capacity
- US is behind on the cost curve against inexpensive kamikaze-style drones

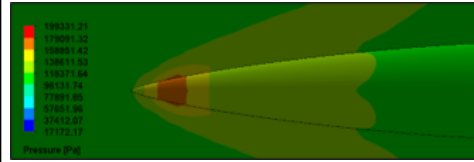


\$40,000 Shahed-136 Drone

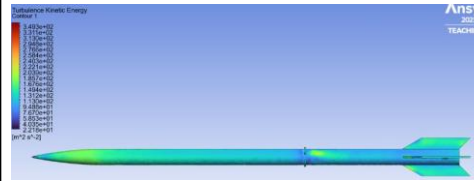


\$120,000 Stinger Missile

## Innovation



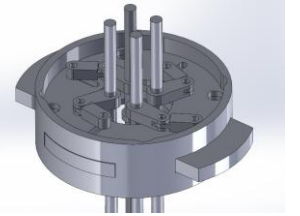
Nosecone optimized for minimal wave drag



Fins optimized for speed and control



DEIMOS Test Flight

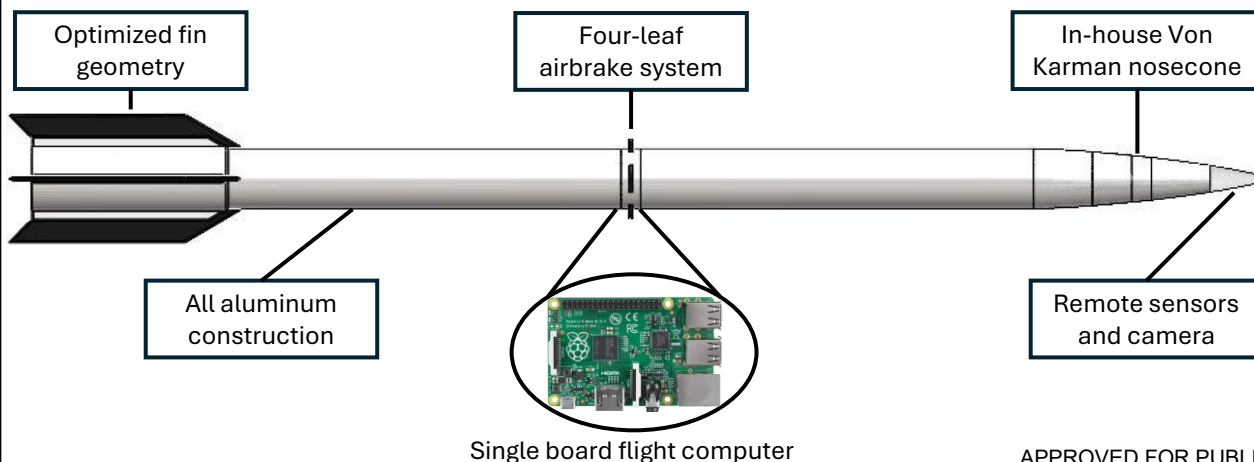


Differentially deployable leaves for altitude and attitude control

### Continued progression:

- Active canard control
- Waypoint guidance
- Multiple stages

## Technical Aspects



## Impact

- Small units can defend against UAVs with organic assets
  - Saves soldiers' lives
  - Protects the mission
- Cheaper than alternative systems
  - Beats the Shahed-136 cost curve
- Modularity allows for humanitarian payloads (surveying, aid, etc.)
- Four journal publications up for review

Enemy UAV Cost Curve

