ROCKET
CRAFTERS

STAR^{3D} Rocket Engine

Safe **T**hrottleable **A**ffordable **R**eliable **3D** Printed
Rocket Propulsion and Launch Services

Launcher: Intrepid-1

Intrepid

Capability (from KSC-CCAFS):

- 415kg to 750km, 39° Inclination
- 410kg to 750km, 45° Inclination
- 405kg to 750km, 51° Inclination
- 395kg to 750km, 57° Inclination
- 375kg to 750km, Sun-synch (98°)

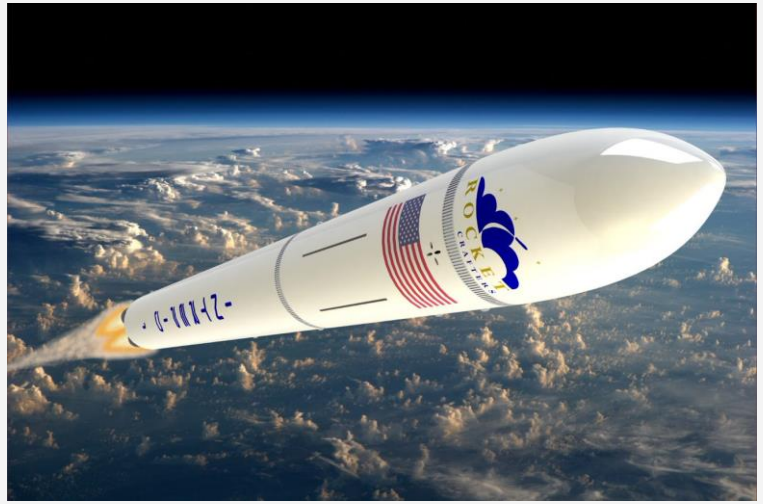
Stages:

1: 4x 125kN RCI hybrid motors
2: 4x 17kN RCI hybrid motors

Airframe and Aeroshell:

- 23.5m Stack height
- 2.4m diameter
- 34,405 kg Gross Take-Off Weight (GTOW)
- 500kN Max thrust on lift-off

- Breakthrough hybrid rocket engine performance
- Unprecedented safety – Automated Flight Safety System - no on-board explosives
- Design for volume manufacturing and assembly – robotic production and plug & play sub-systems
- Reduced customer booking lead time < 6 months
- Designed for high launch cadence



STAR 3D

ROCKET CRAFTERS

World's First Commercially viable Hybrid Rocket Engine

"RCI's vision is to change the way we access space by making it a much safer and more reliable and affordable form of transportation; thereby, facilitating the expansion and growth of space commerce."

Safe

- Manufactured with a 3D Printer
- 2 Valves – Few Moving Parts
- No Cryogenic Propellants
- Produces H_2O, CO_2, and CO

Throttleable

- Smooth Burning
- Throttleable
- Restartable
- Easy to manufacture and operate

Affordable

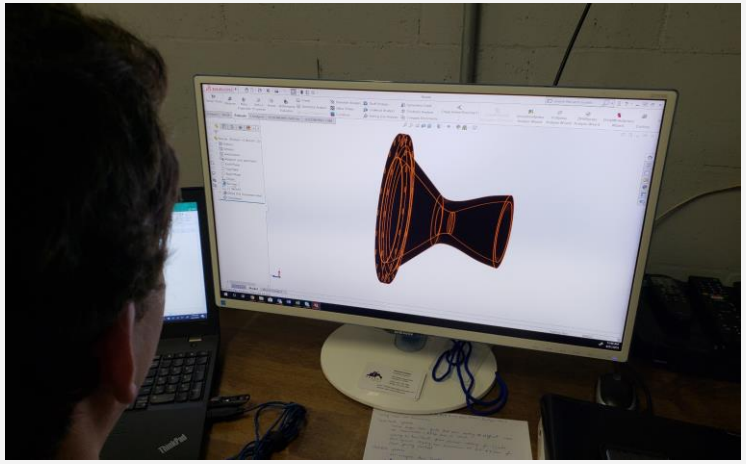
- Non-Explosive Fuel
- No Hypergolics
- Eco Friendly - Cleaner than a Prius
- VERY, VERY, simple

Reliable

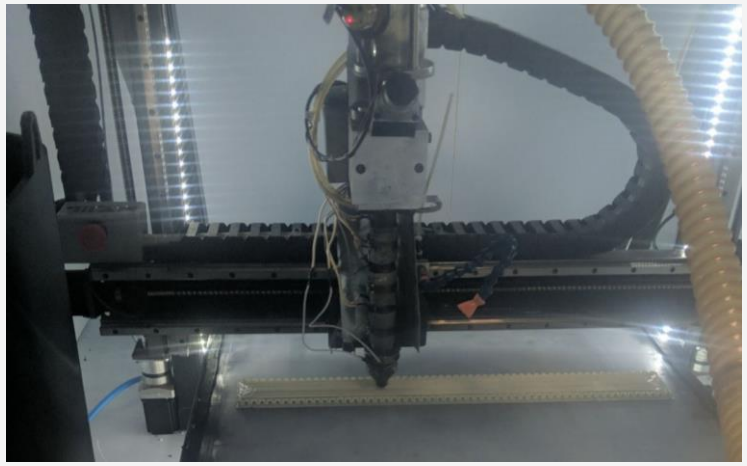
Revolutionary: Process

Modern Manufacturing and Minimal Touch Labor

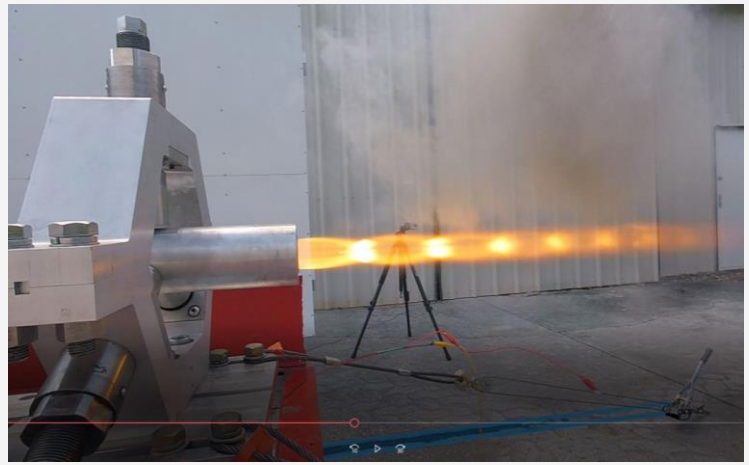
Days



+ Hours



= Seconds



With minimal touch labor, constantly accelerating throughput for 3-D printers and zero cure time for our ABS based fuel, no company building solids or liquids can compete with the speed and agility with which Rocket Crafters can produce its revolutionary hybrid rocket engines.

Rocket: Milestones

Our Trajectory is clear

Testing

- Demonstrate Advanced Fuel Grain Test with 500lbf Engine
- Demonstrate 5000lbf/DARPA Engine

Proof of Concept

- Complete DARPA Program
- Launch a Sounding Rocket above Von Karman Line
- Finish Critical Design Review for Intrepid

Initial Revenue

- Static Test of Intrepid Upper Stage
- Static Tests of Intrepid First Stage
- First Flight of Intrepid
- Manufacture and Sales of Engines to 3rd Party

Emerging Growth

- Ramp up Production and Launch Rate
- Expand to additional Launch Sites

Continued Growth

- Expand our family of Launch Vehicles

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