

A stone wall with a curved top, set in a grassy field under a blue sky. The wall features the college's name in large, dark letters. A tall evergreen tree is visible to the right, and yellow flowers are in the foreground.

**NEW RIVER COMMUNITY COLLEGE**

# Education: NRCC Associate Degrees/Certificates

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## Engineering Design Technology Degree

- conceptualize, design, and produce drawings and models
- cross curricular, project based opportunities in unmanned systems, for air, land, and sea

## Electronics Technology Degree

- design, build, and manufacture electronic systems
- UAV capstone project

## IT Cyber Security Degree

- meet the needs of 102 current, open cyber security jobs in NRCC's service region
- transfer program with Radford University and exploring transfer opportunities with Virginia Tech

## IT Cyber Security Career Studies Certificate

- meet the demand of short term education allowing an individual to enter the workforce at a faster rate

## Future Unmanned Systems Degree and/or Certificate

# **New River Community College**

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## **Unmanned Systems**

**Project Based Learning  
With a Multi-Discipline Approach**

**Jeff Levy**

**Engineering Design Program Head - NRCC**

# History & Context of 2 Year Design Projects

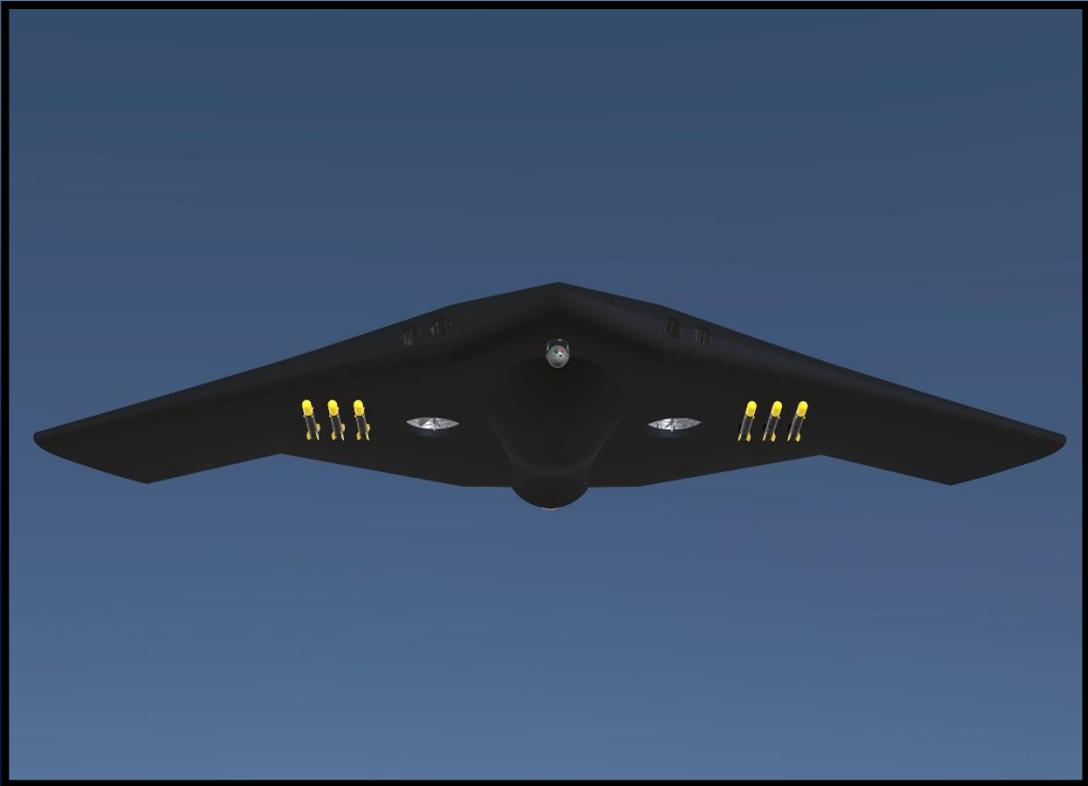
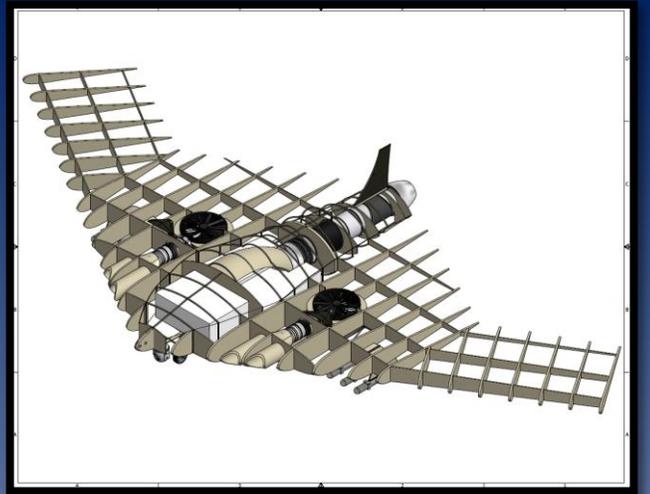
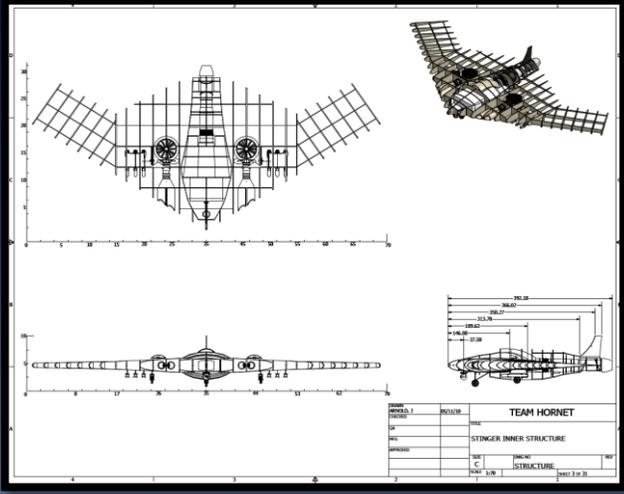
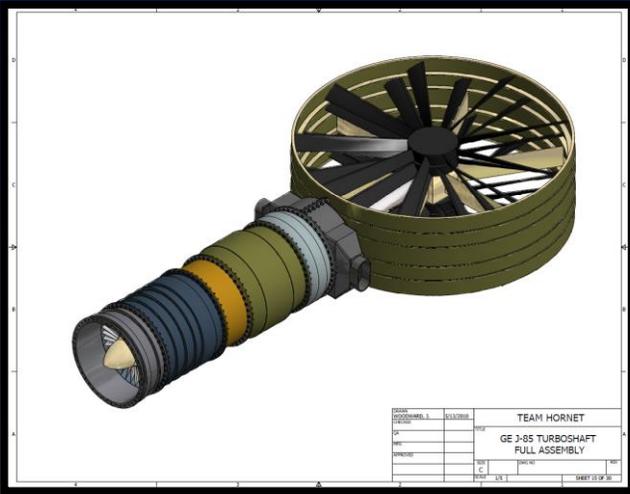
## NEW RIVER COMMUNITY COLLEGE – Engineering Design

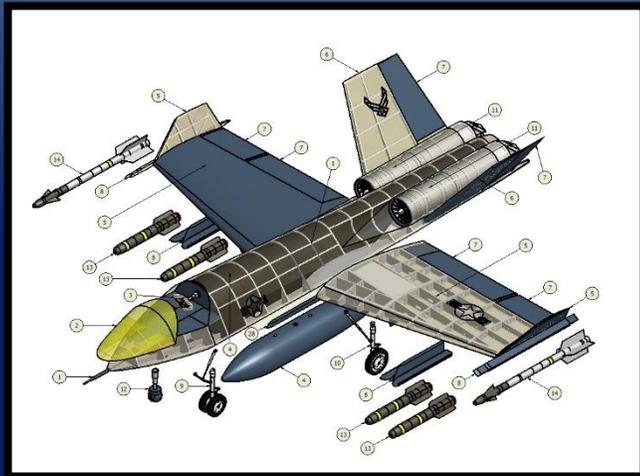
### ☐ 12 Years of Concept Design and Reverse Engineering

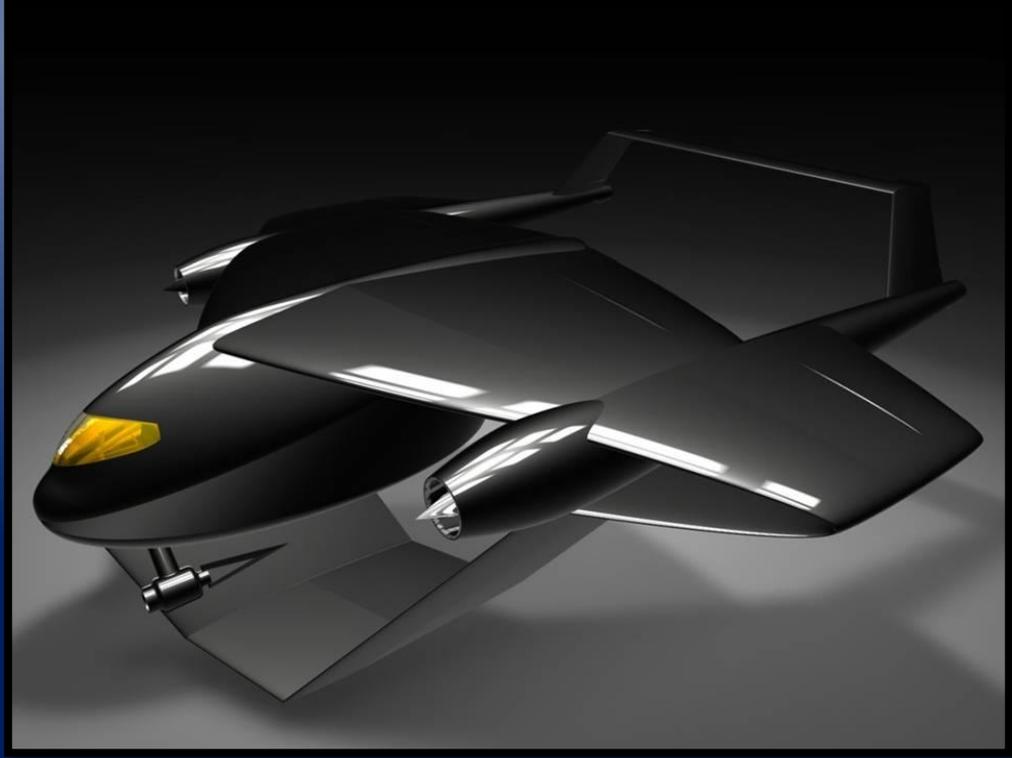
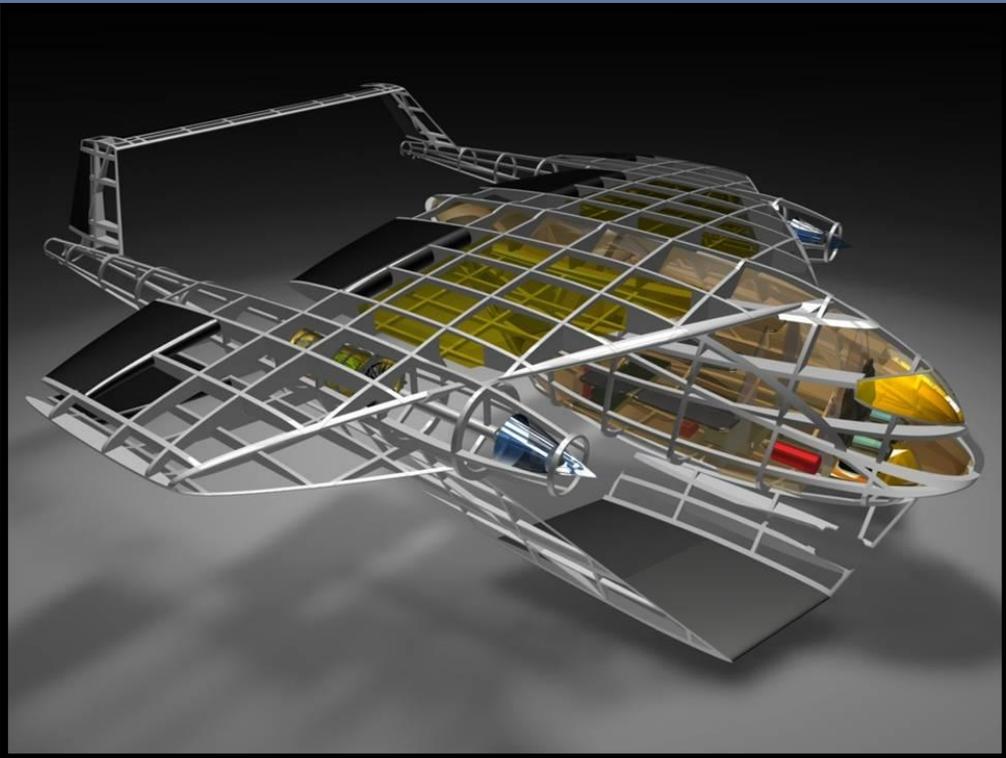
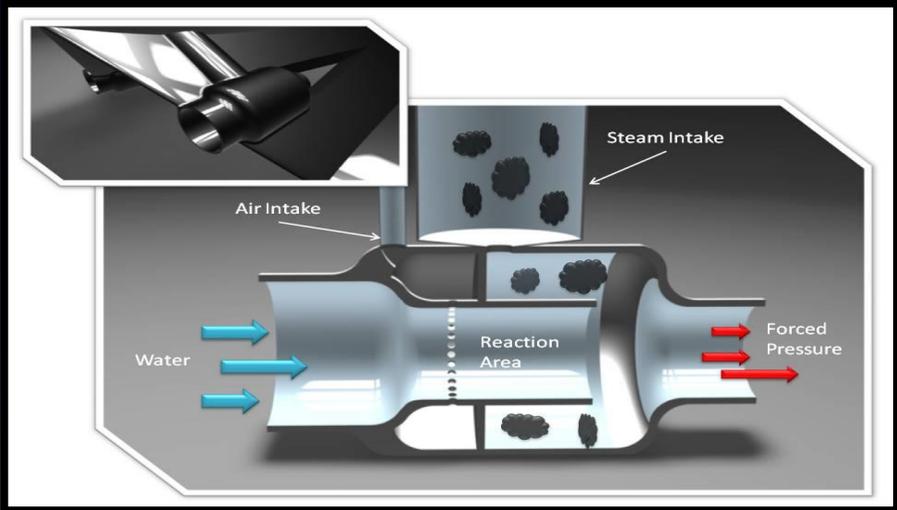
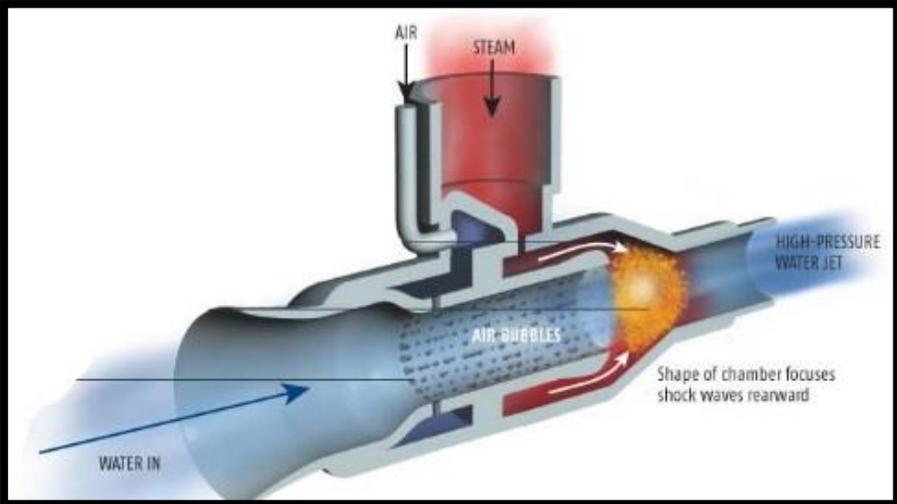
- Unmanned Ground Vehicles
- Unmanned Air Vehicles
  - *UAV / UCAV / UAS(swarm) / Hypersonic / UASF*

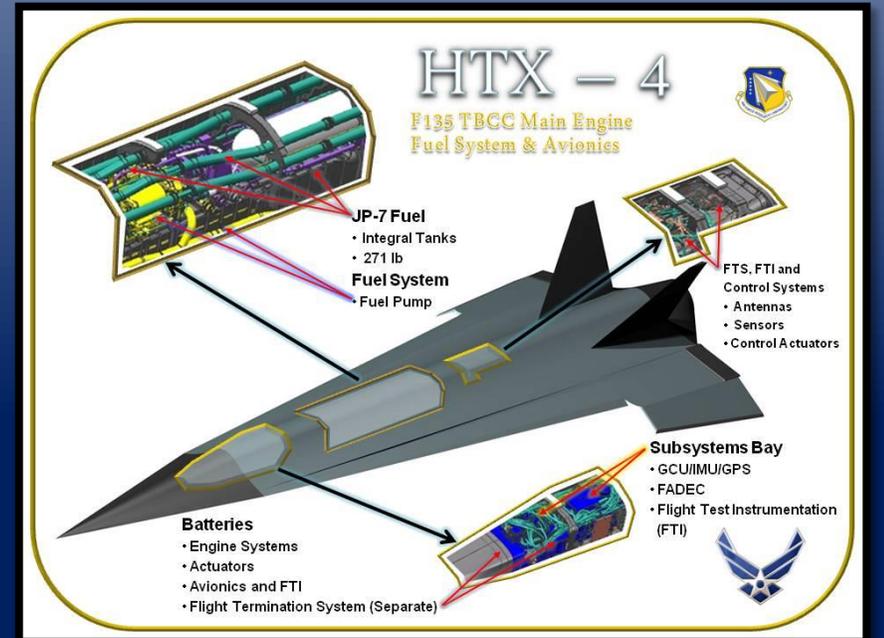
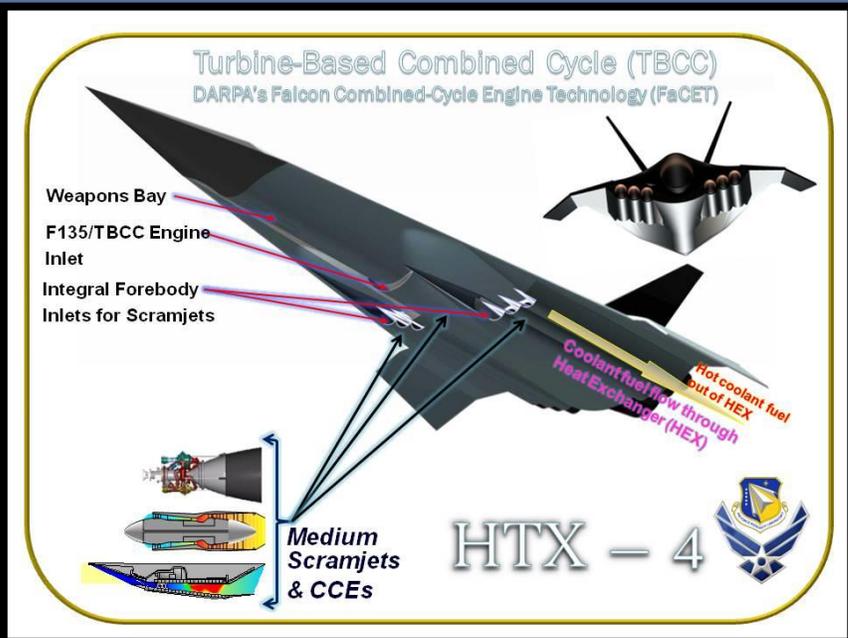
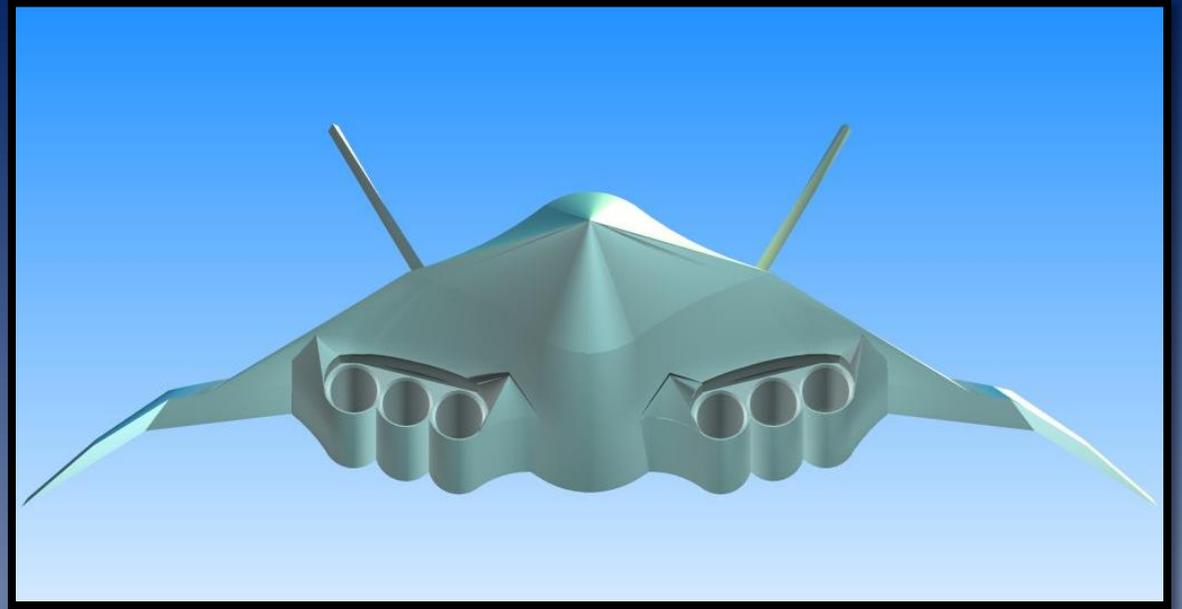
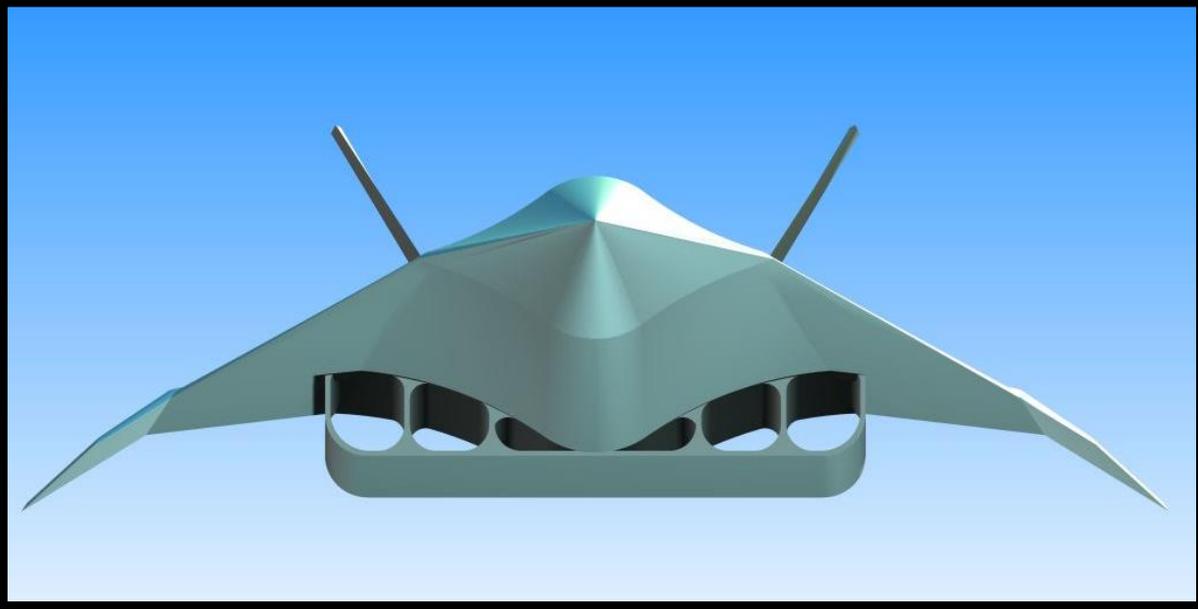
### ☐ Naval Concept Design

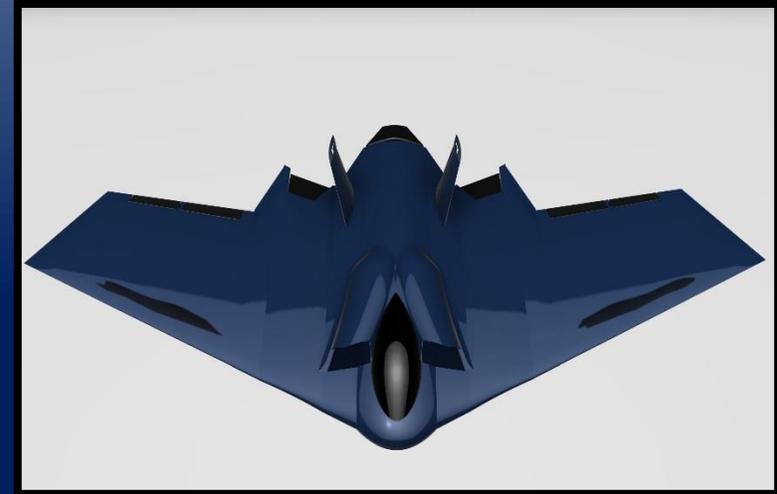
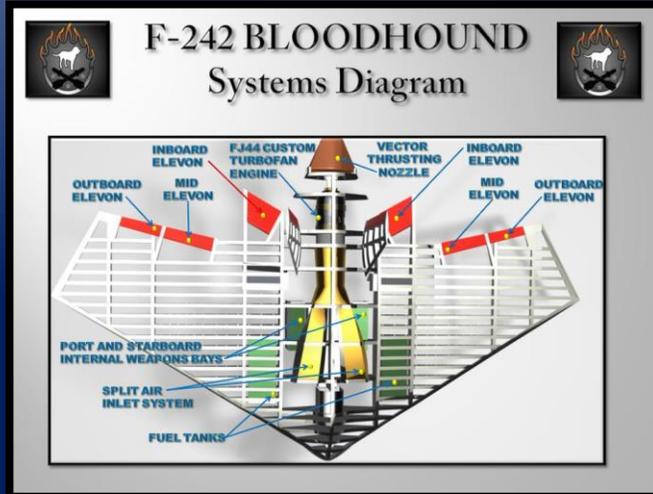
- Submersible Aircraft – Poseidon/Seal Team Delivery & Retrieval
- Virginia Class Fast Attack Nuclear Submarine
- Ohio Class – SSBNX Replacement Project
- 3 Year Digital Restoration – QAR

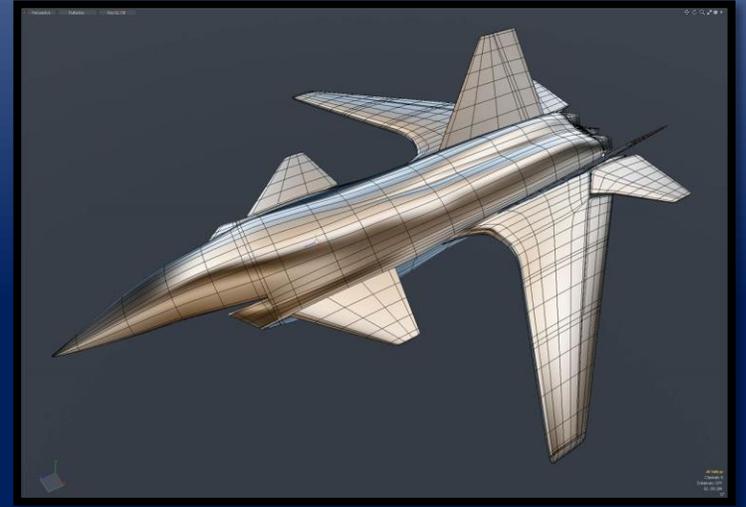
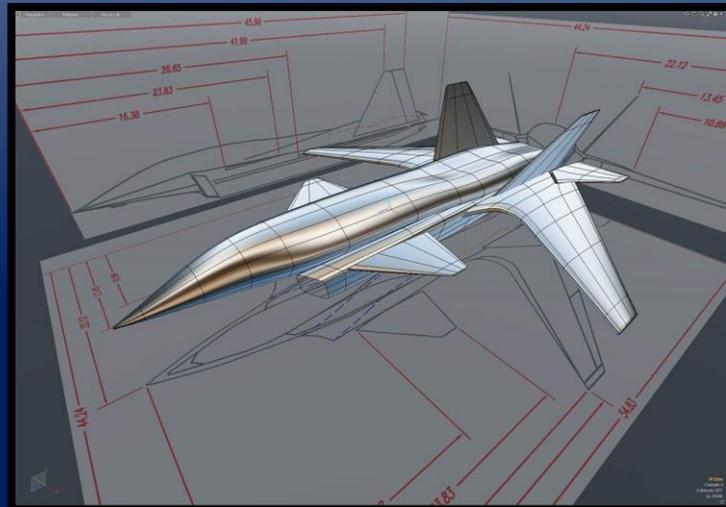
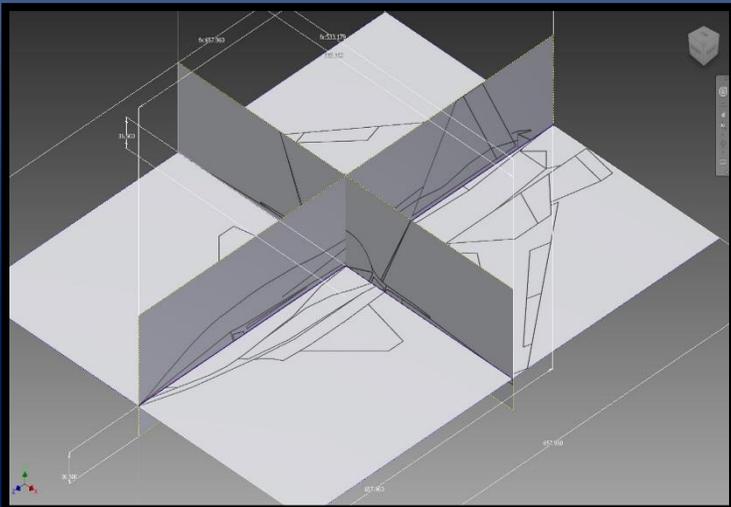
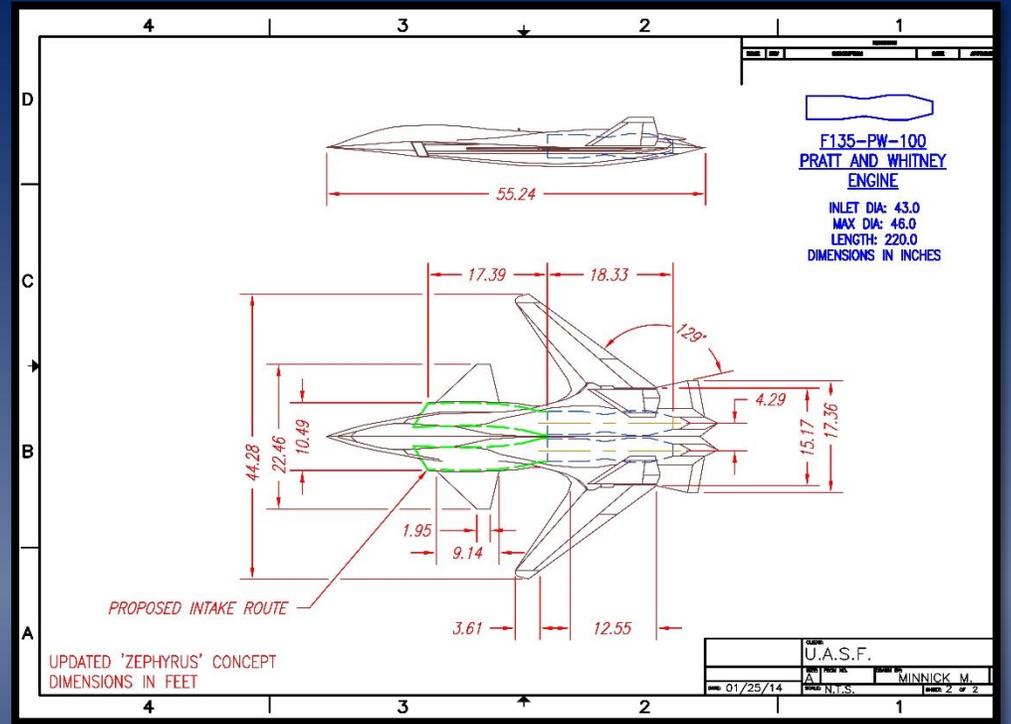
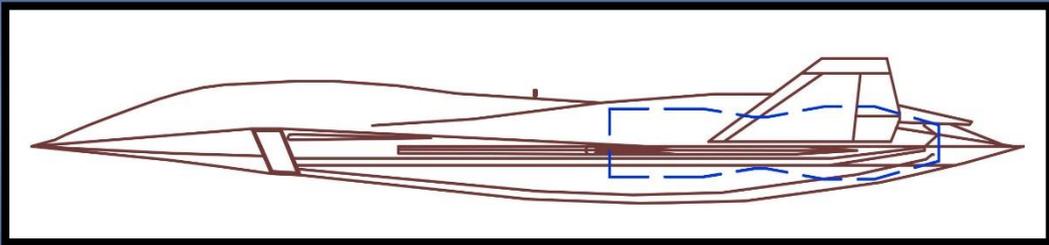
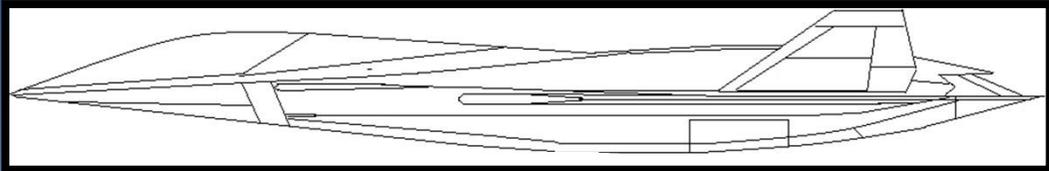
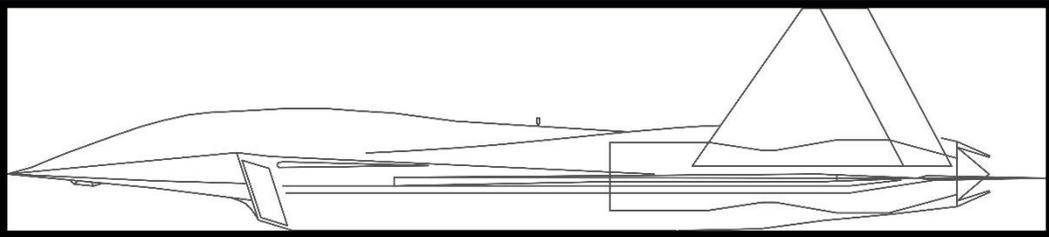


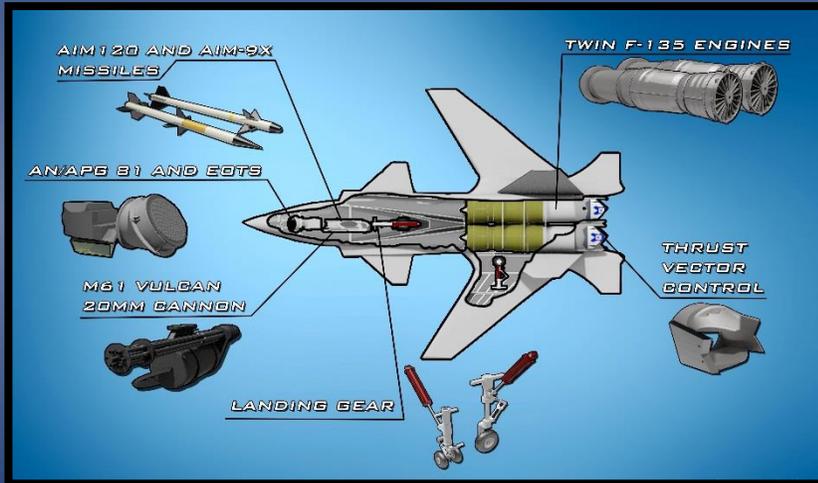
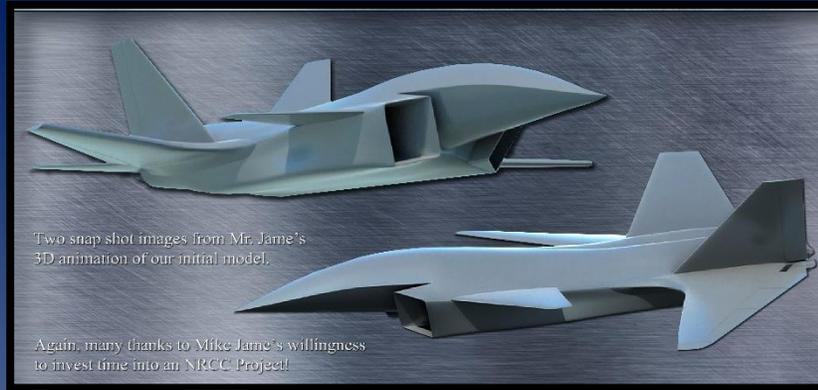


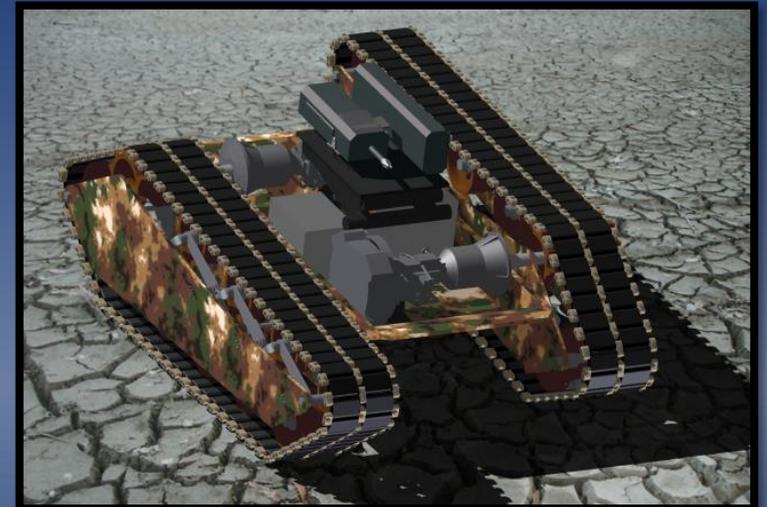
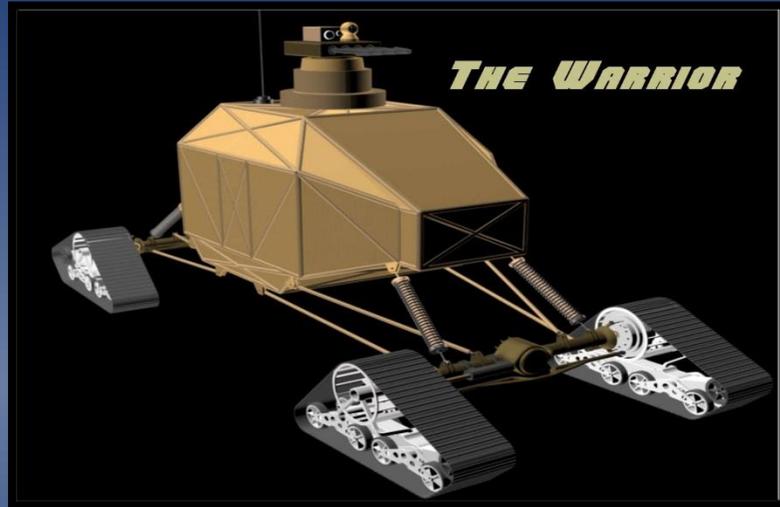
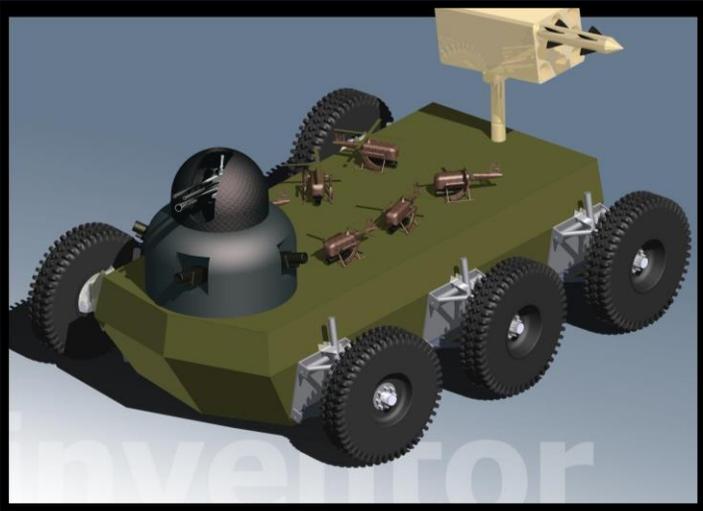






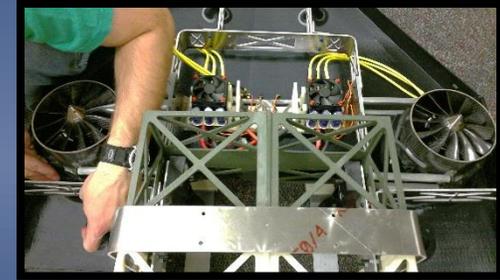
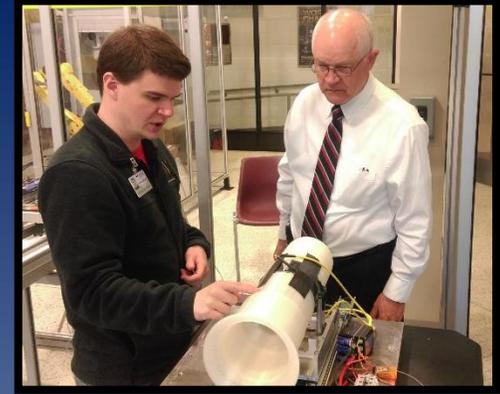






# New River Harrier

2015 - 2016 AHS International Collegiate  
Award Winning Design



Questions?

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