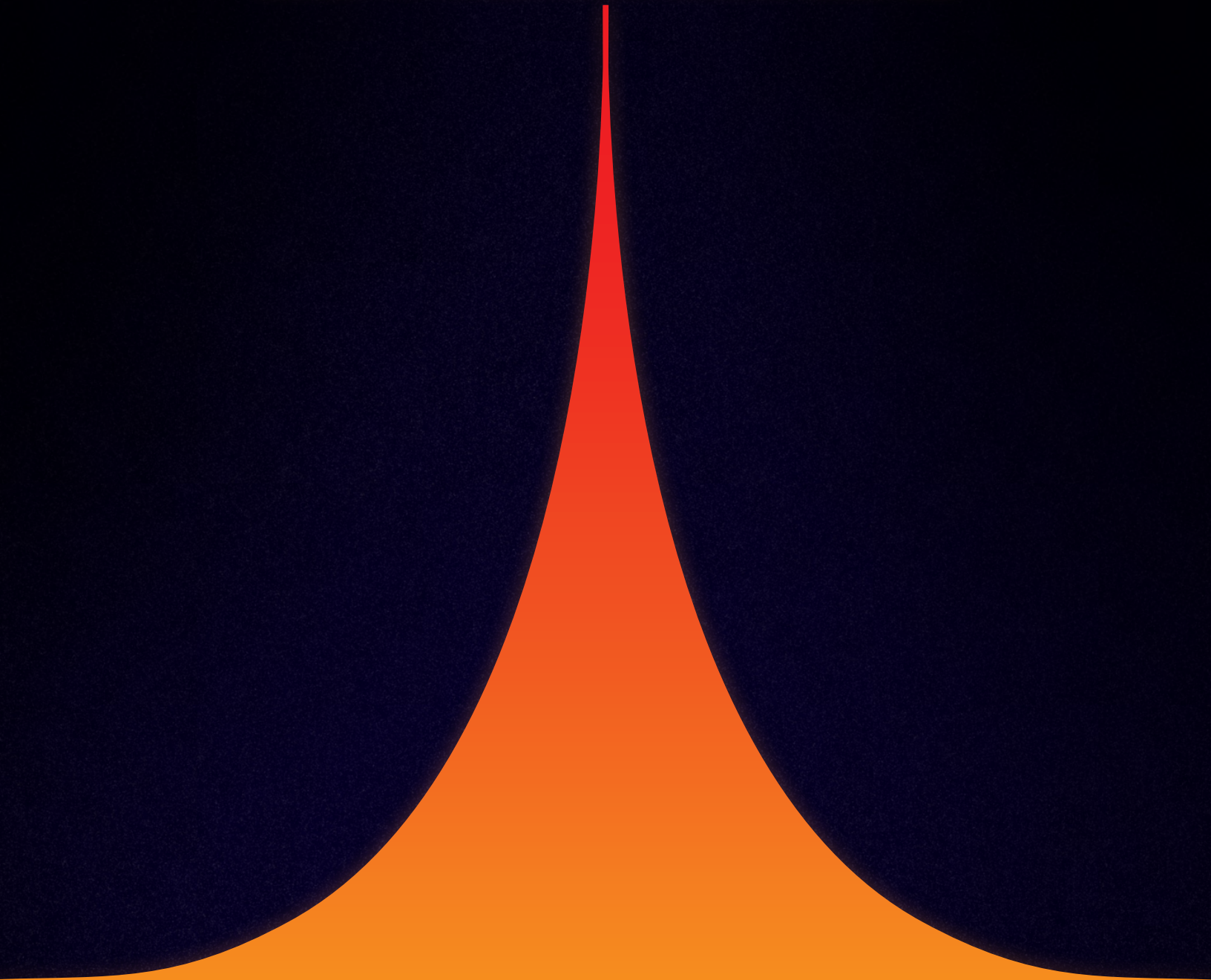


SWAMP | LAUNCH



UNIVERSITY OF FLORIDA'S PREMIER AEROSPACE DESIGN TEAM





OUR MISSION

“Cultivate the Engineer,
Elevate the Institution,
Pierce the Kármán line.”

CULTIVATE

Effective Engineers

Every year our team designs, builds, and flies a rocket in the International Rocket Engineering Competition, the largest intercollegiate rocketry competition in the world. We offer members the opportunity to evolve from never having entered a machine shop, to sending their hardware to the skies via proven engineering leadership.



ELEVATE

SRAD Systems

Through Student Research and Designed (SRAD) initiatives, we empower our members to manufacture and test every system in-house. We instill a culture of testing until failure and rebuilding until success.

Through meticulous documentation and rigorous workflow, Swamp Launch aims to leave the University of Florida more advanced with each passing year.

PIERCE

The Kármán Line

One hundred kilometers up lies the Kármán Line: the internationally recognized boundary where Earth's atmosphere ends and outer space begins. Every system we build, test, and refine is designed for this exact threshold. Our development team is tasked entirely with pushing past standard limitations, moving us rapidly toward becoming the first student team to cross this line with a fullyself-designed, staged rocket.



STRUCTURED FOR SUCCESS

OUR TEAM



Structured like the industry leaders our members go on to become, our organization relies on an intentional, adaptive chain of command, designed to elevate individual ideas straight to the top while passing down knowledge, ownership, and hard-earned lessons from one generation of engineers to the next. Spanning every sector of engineering, each position is earned through impact: from executive chiefs and disciplined leads to dedicated responsible engineers, we champion hard work over tenure. We cultivate visionaries by giving our team the autonomy to dream up and build what others label impossible.

IREC

BREACH

30,000 ft

Our goal this year is to win the IREC Multistage 30k altitude competition. Competing against premier rocketry programs around the world, Swamp Launch will implement ambitious technical advancements to reach this altitude—never before reached by any team at UF, and by very few in Florida.

REACH

Supersonic

Transitioning to supersonic flight subjects the airframe to extreme aerodynamic forces and significantly higher dynamic pressure. Swamp Launch is engineering robust structural solutions to withstand higher Mach speeds, ensuring precise control and unwavering stability as the vehicle breaks the sound barrier.

LAUNCH

Staged

As one of the few collegiate programs attempting active flight stabilization, Swamp Launch is implementing advanced control mechanisms that directly mirror modern aerospace industry standards. Rather than relying on a single passive burn, the team utilizes high-fidelity dynamic simulations to deploy active restabilization efforts, ensuring optimal trajectory and flight control through every phase of ascent.

IMPLEMENT

Critical Sequence

Subsonic Test

Supersonic Subscale Test

Staged Fullscale Test

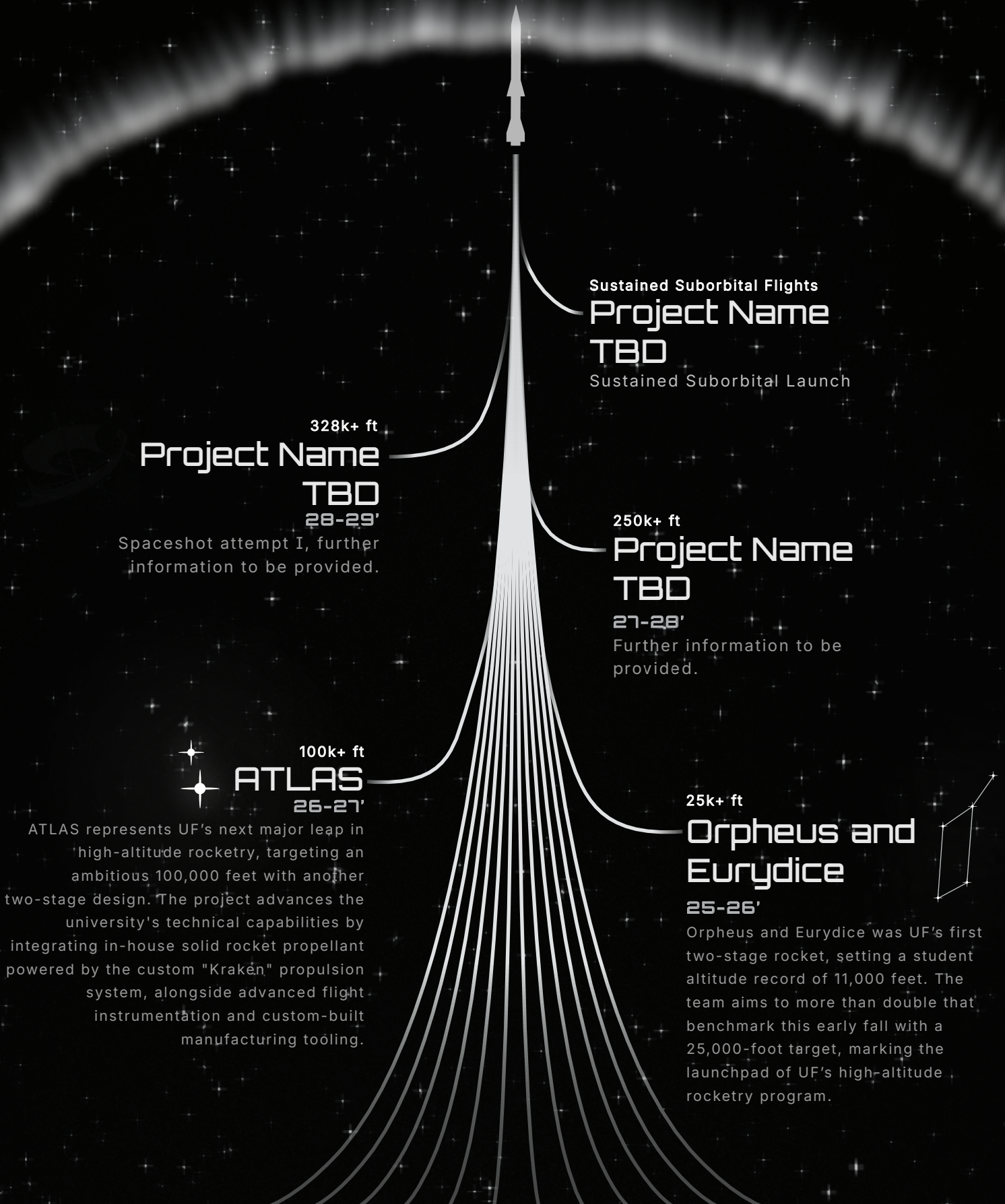
IREC Competition



INTERNATIONAL ROCKET ENGINEERING COMPETITION

Development

We choose the stars not because it is easy,
but because it is hard. Bold ambitions fuel
our innovation and propel us forward.



Continuity

EMPOWERING CURIOUS MINDS FROM EARLY DISCOVERY TO ENGINEERING LEADERSHIP



Educational Engagement

Through a decade of K-12 community outreach initiatives, we inspire the next generation of innovators across Florida. We cultivate an inclusive learning environment for students from preschool to incoming undergraduates, sparking their passion for STEM and aerospace exploration. By delivering hands-on demonstrations in aerodynamics and rocketry, Swamp Launch aims to build foundational confidence and mentorship that empowers future leaders.

Certification Continuum

Through Tripoli and NAR, we have accelerated the cadence of high-powered rocketry certifications for over 50 L1 flyers, 10 L2 rocketeers, and a growing group of prospective members. By facilitating advanced machine and CNC training, Swamp Launch equips students with the precision manufacturing expertise required to innovate.



Industry Integrated

Through rigorous technical instruction, we forge adaptable leaders for advanced engineering industries. Our comprehensive curriculum spans precision machining protocols and structural analysis, equipping students with a robust professional framework. Swamp Launch instills the cross-functional skills and technical expertise necessary to drive innovation across multiple sectors.



PROGRAM SPONSOR

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|Featured as part of collaborative network
in official technical reports

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|Featured as part of collaborative network
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Partner

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swamplaunch@mae.ufl.edu

Action Required After Donating

To ensure your donation directly supports the Swamp Launch Rocket Team, you must email a copy of your donation receipt to swamplaunch@mae.ufl.edu.

Otherwise, we will not receive your donation



SPONSORSHIP
PACKET

26-27'

SWAMP | LAUNCH

A vertical rocket launch is centered in the image. The rocket is a thin, dark line with a small red base. A large, billowing plume of white and grey smoke and fire extends downwards from the rocket, filling the lower half of the frame. The background is a bright blue sky filled with large, white, fluffy clouds. The overall composition is symmetrical and dynamic.

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Swamplaunch.org