



Reusable Orbital Systems

# Graviron Aerospace

*Pitch Deck*

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Year

2026

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# The Problem

**Earth's orbit is becoming increasingly congested, with a growing number of satellites and debris objects.**

**Current space systems are largely single-use and lack the ability to safely interact with, manage, or return from orbit.**

**This creates long-term operational risk and limits sustainable use of orbital space.**

# What's Broken in Earth Orbit

## 01.

### Unmanaged Orbital Growth

The rapid increase in satellites has outpaced the ability to manage, coordinate, and sustain safe orbital operations.

## 02.

### Single-Use Space Systems

Most orbital vehicles are designed for one-time missions, with no capability for reuse, interaction, or recovery.

## 03.

### Limited Orbital Control

Current systems lack controlled maneuvering and interaction, increasing long-term operational risk in orbit.

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Current systems lack controlled maneuvering and interaction, increasing long-term operational risk in orbit.

# Our Approach



## Autonomous Orbital Navigation

Onboard autonomy designed to enable precise maneuvering and decision-making in orbital environments.



## Controlled Orbital Interaction

Systems designed to enable controlled interaction with objects in orbit through incremental validation.



## Reusable Atmospheric Return

Glide-based return concepts focused on safe recovery and reusability after orbital operations.

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# Core Capabilities

Graviron is focused on building core technical capabilities required for safe, reusable, and controlled orbital operations.



## Autonomous Guidance & Control

Onboard guidance and control systems designed for autonomous decision-making in orbital conditions.



## Incremental Validation Framework

Progressive testing across simulation, atmospheric, and sub-orbital environments.



## Orbital Navigation Systems

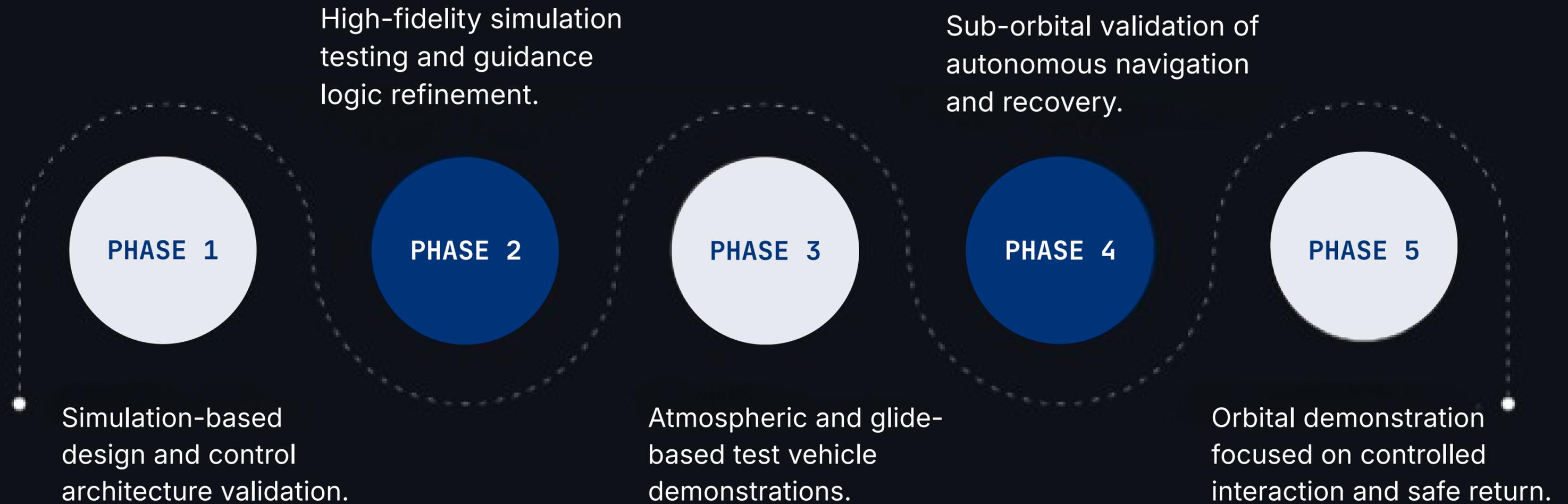
Navigation architectures focused on precise maneuvering and situational awareness in orbit.



## Reusable System Design

Design principles focused on recovery, reusability, and long-term orbital sustainability.

# Technical Validation Roadmap





# Why This Matters

## **Orbital Sustainability**

Long-term use of Earth orbit requires systems designed for reuse, control, and responsibility.

## **Lack of Reusable Infrastructure**

Most existing systems are single-use and not designed for long-term orbital operations.

## **Growing Orbital Congestion**

An increasing number of satellites and objects are creating coordination and safety challenges in orbit.

## **Future Orbital Operations**

Future space activity will depend on controlled interaction, recovery, and sustainable orbital systems.

# Long-Term Vision

Graviron is focused on building foundational orbital capabilities first, with long-term value created through reusable and responsible space systems.

## Capability Development First

Early efforts are centered on technical validation and system capability development.

## Future Service Enablement

Long-term value may be created through orbital services enabled by reusable systems.

## Scalable Orbital Infrastructure

Reusable orbital platforms designed to support future space operations at scale.

# Meet the Founder



**Atul Raj**

**Founder & C.E.O**

CONTACT US

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