Project Olympus: Off-world Construction

MAY 8, 2024
MELODIE YASAHR
ICON is a construction technology company developing robotic and AI systems
Phoenix
Multi-story Robotic Construction System

Vulcan
Robotic Construction System

Olympus
Off World Construction
TEXAS GOVERNMENT LAND OFFICE (GLO): Provided disaster relief homes for families affected by Hurricane Harvey in Corpus Christi, TX

FORT BLISS & CAMP MCGREGOR: 3 barracks, 8,000 sq. ft each, making them some of the largest 3D printed structures in the World.

COMMUNITY FIRST VILLAGE (CFV): Total 6 homes printed in March 2020. 400 sq. ft structures: 1 Bdr, Kitchen, Living

CAMP SWIFT BARRACKS: Printed in August 2021, 3,800 sq. ft. structure set to house 72 soldiers

WOLF RANCH: 100-Home Development in partnership with Lennar in Georgetown, TX

HOUSE ZERO: Printed in Winter 2021 within 10 days. 2,000 sq. ft. structure: 3 Bdrs, 2.5 Bath with a 350 sq. ft. ADU
100-home Community with Lennar
ICON received a nearly $60 million Phase III contract of NASA’s Small Business Innovation Research (SBIR) program, furthering ICON’s Project Olympus to research and develop space-based construction systems to support planned exploration of the Moon and beyond.

ICON’s Olympus system is intended to be a multi-purpose construction system primarily using local Lunar and Martian resources as building materials to further the efforts of NASA as well as commercial organizations to establish a sustained lunar presence.
ICON TVAC Robot Executes Laser VMX

The VMX Process is intended to be executed by a robotic system that consists of a 6-DOF robotic arm used to manipulate a swiss-army knife end effector capable of executing the entirety of the open-bed 3D-printing operations required to produce VMX materials.
PROJECT OLYMPUS

Target to Build

2024 2025 2026 2027 2028 2029 2030 2031 2032

Lunar demonstration to close lab testing

Going “off lander” for extended build volumes

Commercially scalable hab-capable system