

Gilayo Unveils Concept for Robotic Assembly of Modular Steel Structures on Mars

Exploration into how Gilayo's patented steel plate could one day be used to build structures on Mars

AUBURN, CA, UNITED STATES, October 18, 2025 /EINPresswire.com/ -- Gilayo®, the California-based innovator behind the world's most versatile [modular steel framing system](#), is aiming for the stars—literally. The company announced today its ambitious exploration into how Gilayo's patented steel plate system could one day be used to build structures on Mars using the planet's own natural resources.



Known on Earth for its strength, simplicity, and sustainability, Gilayo® structures can be assembled in just hours without welding or heavy machinery—an innovation that has already transformed [off-grid living](#), [disaster relief](#), and military applications. Now, Co-Founder Johnny "Doc" Mayo believes the same system could help humans build the first steel habitats on another world.

“

The Gilayo® Plate was designed to make strong, lasting structures anywhere—mountains, deserts, disaster zones. Mars is just the next frontier.”

Johnny "Doc" Mayo, Co-Founder, Gilayo

“If we can build a home in a day here, we can build a habitat on Mars,” said Mayo. “The Gilayo Plate was designed to make strong, lasting structures anywhere—mountains, deserts, disaster zones. Mars is just the next frontier.”

Mayo, a lifelong builder, inventor, and pioneer, envisions robotic assembly of Gilayo structures using Martian rock and regolith as the foundation—turning local materials into functional habitats and labs for future explorers. The modular nature of the Gilayo system makes it ideally suited for expansion and adaptation in harsh environments, whether on Earth or millions of miles away.

“The future of construction isn’t confined to our planet,” Mayo continued. “Gilayo was born from a simple idea: make building faster, smarter, and more resource-conscious. Now that idea could help humanity settle the Red Planet.”

Beyond its space ambitions, Gilayo® remains committed to real-world impact—creating housing solutions for disaster recovery, sustainable development, and humanitarian aid. The company’s philosophy is that innovation should serve both people and the planet, whether under blue skies or red ones.

“We build for a purpose,” Mayo said. “On Earth, that means giving people safe places to live and work. Mars challenges us to think differently, to innovate with what we have, and to create systems that endure. Gilayo was built for that.”

John Mayo
Gilayo Foundation
+1 530-308-7083
[email us here](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/859213481>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.