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**Hardtech Development
Presented to: CTO
July 16th, 2025**



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Hardtech Problems are Different

Webinar: Hardtech Development - Failing Fast and Other Misconceptions

Guy Babbitt, Czero CEO, was hosted by Ken Hayes and Ryan Hoover from Cleantech Open to explore how to thoughtfully apply “fail fast” principles to hardtech development, where long lead times, high costs, and safety risks often make rapid iteration more complex. Missed the webinar? Check it out here:

[Watch Here](#)



NOVEL METHANOL SYNTHESIS MICROCHANNEL REACTOR

Czero has partnered with Nexceris (Prime), and three other sub-awardees to support the development of e-fuels via a novel methanol synthesis microchannel reactor operating on intermittent renewables as part of an ARPA-E GREENWELLS program. A key innovation of this project is the integration of novel catalyst packaging with membrane which separates water as it is being produced thereby overcoming conventional equilibrium limits and enabling single-pass conversions exceeding 90%. Czero's role in the project is to support the microchannel reactor design and design the benchtop balance-of plant system, develop system controls, and develop a predictive physics-based system model to support system development and access the system's transient performance at scale.

[Read More](#)

Supporting the U.S. Department of Defense

Czero is proud to support the U.S. Department of Defense across critical R&D and engineering initiatives. From reverse engineering legacy components to advancing hybrid power solutions for field deployment, our team brings deep technical expertise to accelerate mission readiness and equipment reliability.

Reverse Engineering

One way we support the DOD is through our work with the Defense Logistics Agency's Reverse Engineering Technical Data Initiative (RETDI) and other programs by recreating technical data and

manufacturing first articles for mission-critical components.

- ✓ Aircraft components for F16, F18, V22, KC135, and others
- ✓ Exhaust manifolds for ground-based vehicles

[Read More](#)



As we wrap up, I'll leave you with a little snapshot from our backyard - Chris and I out at Goose Hollow, doing a bit of cleanup.

This year's brought a lot of change, but our commitment to our customers and our community hasn't wavered. We've shared what we've been up to and now we'd love to hear from you. Send us your updates, milestones, or just say hello.

Let's Talk Engineering

[Schedule a Meeting](#)

Where to Find Us

We're thrilled to share our progress and connect with the community at several upcoming events. If you'll be attending any of these or in the area, we would love to connect!

[Fed Supernova](#) | August 18 | Austin, TX

[Hydrogen Americas Summit](#) | September 3 - 4 | Oxon Hill, MD

[Houston Energy Week](#) | September 15 - 19 | Houston, TX

[NYC Climate Week](#) | September 22 - 26 | NYC

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