

Cyber Capabilities Statement

Overview

Hadron Industries is a software and systems engineering firm that builds top-of-the-line products for critical missions.

We have deep roots in the open source and open standards communities, and our workplace is a five-minute walk from the MIT student center. We build products that are made to last long after we are gone.

Hadron staff are experienced at all phases of software development and distributed systems design, with particular skill in security-related software and cybersecurity operations. Collectively, we have built and managed large-scale cyber ranges, co-written Internet security standards, and served in every role of cyber offense, defense, and evaluation (in both exercise and real-world contexts).

From Apple to JSOC, we have delivered products for clients across the market spectrum. Their one common thread: an uncompromising need for professionalism and security.

Hadron can provide a range of services required to run a distributed organization, training environment, and ops floor:

- **Develop & manage infrastructure and advanced networking configurations.** Hadron is deeply proficient in virtual infrastructure engineering & management; automated infrastructure provisioning; configuration management; and network design, configuration, and security, including cross-domain and multi-domain systems.
- **Create range content.** Hadron's cyber ranges are fully automated, dynamically configurable, targeted at a variety of cloud platforms, and tracked in change control. Standing up a training scenario is as easy as sketching out a set of hosts, choosing a cloud provider, and pressing "build."
- **Deliver collaborative training environments.** Our collaboration technology delivers a sense of presence and connectedness that you won't find anywhere else. This solution comes with integrated VTC capabilities that your staff are already familiar with.
- **Deliver great operations centers.** We have designed ops centers and immersive information environments for NRO, NGA, AFRL, and more. We are authorized resellers for a wide range of electronics manufacturers, making Hadron an end-to-end provider of your entire solution.

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Key Staff

Our culture and skills are best illustrated by the backgrounds of our key staff.

Klee Dienes, Hadron's founder and president, is a former lead engineer at Apple. He was the initial manager of Apple's open source operating system, Darwin, and a founding member of the Debian GNU/Linux and the GDB technical steering committees. After nine years with Apple, he joined the National Guard and served a one-year tour as a MEDEVAC team leader in Iraq. He is currently a defensive cyberoperations officer in the Army National Guard.

Sam Hartman is Hadron's lead systems & security engineer. He has been building system security software for over 20 years. Prior to Hadron, Sam led his own security engineering firm for eight years, where he developed and deployed next-generation authentication systems for large institutional clients. For six years, he was the technical director of the MIT Kerberos Consortium, where he managed the world's dominant authentication protocol. He has also served as the director of the Internet Engineering Task Force's security area. In this role, he created and managed Internet security standards.

Matthew Burton was previously the Deputy and Acting Chief Information Officer of the Consumer Financial Protection Bureau, where he managed the creation and deployment of a 1500-user, six-facility nationwide enterprise. He spent two years as a C4ISR analyst at the Defense Intelligence Agency, and has developed analysis and collaboration software for multiple Intelligence Community member agencies. All such products have been released under open source licenses.

Jeff LeBlanc has been developing software for immersive video experiences for over 10 years. He was the first employee of Potion Design, a New York-based design firm specializing in interactive information displays. In this role, he led the management of multiple high-visibility projects, including the Bell Labs Global Whiteboard, a touchscreen video wall for navigating over 100,000 Bell Labs research papers and patents; and the interactive Star Spangled Banner exhibit at the Smithsonian National Museum of American History.

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Acquisition

Hadron's cyber range tools and services may be acquired through a sole-source process, regardless of cost.

Hadron's ops center and collaboration architectures are based on technology that extends from a SBIR Phase III-funded project (FA8650-14-D-6533, "Collaborative Virtual ISR Workplace"). Per section 4(c), parts 2-5 of the SBIR Policy Directive, any acquisition of work that is derived from or extends prior SBIR awards has SBIR Phase III status and rights, including the ability to make such an acquisition on a sole source basis without cost limits. Such acquisitions may be for research, products, production, services, or any combination thereof. The Directive provides the following guidance to procurement officials regarding such acquisitions: "(I)n conducting actions relative to a Phase III SBIR award, it is sufficient to state for purposes of a Justification and Approval pursuant to FAR 6.302-5, that the project is a SBIR Phase III award that is derived from, extends, or completes efforts made under prior SBIR funding agreements and is authorized under 10 U.S.C. 2304(b)(2) or 41 U.S.C. 3303(b)."

Further information about Hadron's Phase III contract and its technologies that extend to this acquisition is available upon request.