

CAPABILITY STATEMENT

CAGE: 18FD3 | **UEI:** NHNMEDR9GZZ7 | **SIGMA:** VS0369433

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Lange Studios LLC

COMPANY OVERVIEW

Lange Studios LLC is a high-capacity software engineering firm specializing in custom software solutions and modernizing legacy systems. Whether architecting new applications or maximizing the performance of existing ones, we leverage memory-safe technologies to deliver high-speed and cost-effective digital products.

CORE COMPETENCIES

- Full Stack Native App & Web Development
- Scalable Product Engineering (SaaS/COTS)
- C#, Java, Rust, JavaScript, HTML, C++
- Legacy System Modernization
- Memory-Safe Engineering
- Edge Computing & IoT
- System Interoperability
- Cloud Development

PAST PERFORMANCE

- **Chesaning Chamber of Commerce (2020 - 2021):** Created native app that displays payment data from Excel, PayPal, and Quickbooks.
- **High-Performance Re-Engineering (2023 - 2024):** Engineered a migration from C# to Rust, achieving a 6000% increase in server capacity, drastically reducing hosting costs.
- **Global Enterprise Cloud Migration (2024 - 2025):** Led a team in migrating dow.com for Dow Chemical from on-premises to modern cloud infrastructure.
- **Low-Bandwidth Networking (2023 - Present):** Developed proprietary bitwise networking protocols for real-time low-bandwidth communication.
- **Industrial IoT Data Management (2016 - Present):** Developed full-stack airflow monitoring in car manufacturing paint booths using ultrasonic wind sensors and cloud-hosted visualizations.
- **Networked Deterministic Physics (2020 - Present):** Implemented client-side prediction and state synchronization to reduce perceived latency in real-time physics simulations.

DIFFERENTIATORS

- **Memory Safety-by-Design:** Direct implementation of memory-safe architectures to meet the federal "Secure Software Development Framework" requirements.
- **Efficiency-First Approach:** Track record of optimizing software to run on minimal hardware, providing massive cost savings.

COMPANY DATA

- **Primary NAICS:** 541511 (Custom Computer Programming Services)
- **Secondary NAICS:** 541512 (Computer Systems Design Services), 518210 (Data Processing, Web Hosting, And Related Services)
- **PSC Code:** DA01 (It And Telecom - Application Development Services (Labor)), DA10 (It And Telecom - Application Development Software As A Service)
- **Socioeconomic Status:** Small Business / LLC