

Kate Heise, MSN, MBA

Rochester, MN

heise.katherine@mayo.edu

Digital Transformation Leader | Clinical–IT Enterprise Bridge | AI & Architecture Governance

Career progression bridging mission-critical infrastructure, frontline clinical operations, and enterprise digital transformation.

EXECUTIVE PROFILE

Digital transformation leader bridging clinical operations and enterprise technology strategy across Mayo Clinic’s complex healthcare ecosystem. Designs scalable AI-enabled platforms, structured data architectures, and governance frameworks that reduce fragmentation and improve interoperability. Experienced in aligning physicians, IT architects, data engineers, and operational leadership to translate strategic priorities into deployable, measurable solutions.

ENTERPRISE LEADERSHIP & ARCHITECTURAL STRENGTHS

Clinical Literacy in System Design

Applies frontline clinical insight to enterprise technology decisions, ensuring data models, workflows, and AI integrations reflect real-world care delivery.

Operationally Grounded Architecture

Designs and governs digital platforms with adoption, feasibility, and measurable enterprise impact in mind — balancing architectural integrity with operational realities.

Systems-Level Strategic Thinking

Aligns infrastructure, data standards, workflow design, and governance as an interconnected ecosystem to reduce fragmentation and strengthen enterprise coherence.

PROFESSIONAL EXPERIENCE

Clinical Systems Architect & Digital Transformation Leader

Mayo Clinic – Rochester, MN

- Enterprise architectural design and governance of decision-support systems integrating real-time physiologic data, laboratory results, and structured clinical features into scalable inpatient workflows supporting operations across multiple clinical domains.
 - Development of validation, threshold, and monitoring frameworks to improve signal integrity, reduce alert fatigue, and strengthen clinician trust in AI-enabled platforms.
 - Enterprise documentation architecture within Epic enabling predictive modeling, automation, analytics, and cross-domain interoperability.
 - Alignment of physician scientists, IT architects, data engineers, and operational leaders to translate strategic digital initiatives into deployable, workflow-integrated systems.
 - Workflow automation architecture standardizing task execution, reducing manual workarounds, and improving reliability of downstream data capture.
 - Modernization of clinical workflows to reduce documentation fragmentation and strengthen enterprise data consistency.
-

United States Air Force

Information Technology Systems Administration & Deployable Communications

- Managed secure, mission-critical network and communications infrastructure supporting distributed operations across high-reliability environments.
 - Designed and maintained network architectures, satellite communications systems, and end-user platforms under strict security and operational constraints.
 - Ensured system resilience through redundancy planning, performance monitoring, and structured change management processes.
 - Operated within governance frameworks balancing cybersecurity, compliance, and mission execution.
 - Developed foundational expertise in distributed systems, infrastructure reliability, and risk management applicable to large-scale enterprise architecture.
-

Critical Care Nurse Practitioner & Clinical Leadership

Mayo Clinic – Rochester, MN

- Provide advanced practice care in high-acuity intensive care settings within time-sensitive, high-risk clinical environments.
- Lead multidisciplinary coordination across physicians, nursing, respiratory therapy, and ancillary services to align care delivery and operational priorities.
- Identify workflow inefficiencies and system-level gaps impacting care delivery, informing enterprise documentation and digital redesign initiatives.
- Mentor advanced practice providers in standardized documentation and structured data practices supporting quality, analytics, and interoperability.
- Contribute frontline operational insight to enterprise governance discussions, ensuring architectural decisions reflect real-world clinical complexity.

EDUCATION

Doctor of Nursing Practice (DNP), Leadership
Winona State University — Expected Spring 2027

Master of Business Administration (MBA), Healthcare Communication
Bellevue University

Master of Science in Nursing (MSN), Adult-Geriatric Nurse Practitioner
St. Catherine University

Bachelor of Science (BS), Healthcare Management
Bellevue University

Associate of Applied Science (AAS), Information Systems
Community College of the Air Force

Certificate, Data Analysis & Visualization
University of Minnesota

THOUGHT LEADERSHIP & DIGITAL PORTFOLIO

Systems Thinking Presentation January 2026

Mayo Clinic Video Exchange [Critical Care Grand Rounds: “Same Problems, Different Interfaces” - Video Exchange](#)

Professional Portfolio & Writing

<https://kheise9103.github.io/resume/>

LinkedIn

<https://www.linkedin.com/in/kate-heise-58185a230/>