Transforming Healthcare Delivery through Mixed Reality

HIMSS Nursing Informatics Community Webinar
June 21, 2022
Welcome

Cait Michicich, MBA
Program Manager, Clinical Informatics, HIMSS
The Nursing Informatics Community’s purpose is to articulate a cohesive voice for the HIMSS Nursing Informatics community and to provide domain expertise, leadership and guidance to HIMSS activities, initiatives, and collaborations with the global nursing informatics community.

- Educational webinars qualified for CA/CPHIMS on nursing informatics topics and emerging trends
- www.HIMSS.org/NI
- #Nurses4HIT
Join us on Accelerate!

Join Accelerate today at YourAccelerate.com

Accelerate is a natural extension of HIMSS's origins and foundation as a member-driven society, and is an innovative solution aimed to support members, partners and the global health ecosystem 365 days a year.

To join the HIMSS Nursing Informatics Community, register with your email, password, and personal invite code: MVPNI

To join the HIMSS Future of Nursing Community, register with your email, password, and personal invite code: HIMSSFON
Upcoming Events

www.himss.org/events

Nurses in the Innovation Space
June 30, 2022 | Webinar

Mitigating ED Overcrowding Problem Using Machine Learning
June 23, 2022 | Webinar
Agenda

- Learning Objectives
- Meet the Speakers
- Presentations
- Audience Q&A
Welcome

Kathleen McGrow, DNP, MS, RN, PMP
Chief Nursing Information Officer Microsoft

Transforming Healthcare Delivery through Mixed Reality
Learning Objectives

Define how Mixed Reality offers the opportunity to improve the provider experience and patient outcomes

Explore how immersive experience assists with training and education

Explain how the three-dimensional images allow a user to see/change the view of the world

Discuss how the nurse informaticist can champion MR innovation at their organization
Our Speakers

Eric Kamont
Director of Mixed Reality Strategic Partnerships, Microsoft

Jared Kutzin, DNP
Associate Professor and Senior Director of Simulation at Icahn School of Medicine, Mount Sinai

Amar Patel, DHSc, MS, NRP, CHSE, FSSH
Chief Learning Officer, CAE Healthcare
Celebrating over 18 years with Microsoft, Eric Kamont has established a reputation for enabling customers and partners worldwide to find success through incubating cutting edge technologies, such as Mixed Reality and IOT. Combined with industry backgrounds across manufacturing and retail, Kamont brings to bear a point of view that crosses both the technical and business landscape. Prior, he spent time in the AEC and gas turbine industries, landing successful startup initiatives in both. Self-funding his collegiate pursuits, Kamont holds a Bachelor of Science in Computer Science. In his spare time, he can be found competing in obstacle course races, working on his 3rd degree blackbelt, volunteering with the YMCA, honing his chef skills, and spending time with his wife and two boys.
Jared Kutzin, DNP, MS, MPH, RN, FSSH

Associate Professor and Senior Director of Simulation, Icahn School of Medicine, Mount Sinai

Jared is a registered nurse with advanced degrees in health policy and management, public health, leadership, and medical education. In 2017, Dr. Kutzin was inducted as a fellow in the Society for Simulation in Healthcare’s Simulation Academy and in 2018 he served on the Baldrige Board of Examiners and was recognized as a fellow by the New York Academy of Medicine (NYAM). Previously, Jared served as the Chairperson for the Society for Simulation in Healthcare’s (SSH) Certified Healthcare Simulation Educator (CHSE) Committee and as an Accreditation Committee Site Reviewer. Currently, he is a member of the SSH Board of Directors, the NYS Board of Nursing, and the NYS EMS Council. In addition, he is the Associate Editor for simulation for MedEdPORTAL, The Journal of Teaching and Learning Resources and on the Executive Editorial Board for the Journal of Emergency Nursing. Jared’s research interests include educational methodologies, patient safety and quality, a how the built environment impacts care.
Amar Patel, DHSc, MS, NRP, CHSE, FSSH,
Chief Learning Officer, CAE Healthcare

Prior to CAE, Dr. Patel served as the Executive Director of WakeMed Innovations and the Director of the Center for Innovative Learning at WakeMed Health & Hospitals. He was responsible for all innovation projects across the healthcare system from conceptual designs and theoretical applications to creating new technological solutions or developing new care delivery models. In addition to WakeMed Innovations, Dr. Patel was responsible for integrating technology-based educational programs to include human patient simulation, healthcare gaming, eLearning applications, simulation-based research, and hybrid education. He previously served as an Advanced Life Support Program Instructor and the Project Manager of Medical Simulation for the Maryland Fire and Rescue Institute at the University of Maryland, College Park. Dr. Patel is considered a simulation expert and much-published key opinion leader with 60+ abstract, article and textbook chapter publications to date. With a professional history that includes stints as a firefighter, paramedic, educator, researcher, and curriculum developer.
Last Things First...
The evolution of computing

- Software on computers
- Applications on mobile devices
- Experiences in the metaverse powered by mixed reality
We believe **metaverse** is enabled by a set of technologies that allows for persistent, digital representations connected to aspects of the real world.

- **People**: Discover the power of presence
- **Places**: Create new immersive worlds
- **Things**: Simulate, predict, and automate

Safe, secure, and open by design
Metaverse evolution

Today

Tomorrow

Future

Mixed Reality and Digital Twins

Shared immersive experiences infused with 3D content and real-time data

Interoperable immersive worlds
Blending the physical and digital universes together
Discover what’s possible while staying grounded in the familiar
Proven Enterprise Use Cases

As we have worked with thousands of enterprise customers the past several years, we have seen a handful of use cases that can be applied across many industries which have a fast time to value (TTV) and a proven return on investment (ROI):

**Training & Simulation**
- Train and onboard new employees faster than ever using a “learning by doing” approach.
- Simulate scenarios so that your employees can practice how to respond in certain situations.

**Guides & Task Management**
- Walk employees step-by-step through guided experiences to help them complete tasks faster and more accurately than ever before.

**Remote Assistance**
- Enable your employees to remote in an expert anytime they need it.
- Experts can see and interact with the same environment as the employee as if they were there.

**Design & Prototyping**
- Convert your CAD and BIM files to 3D digital twins to quickly iterate and collaborate on new product designs.

**Sales Assistance**
- Carry less inventory and close large ticket sales faster by using mixed reality to showcase any configuration or customization to your customer.

**Contextual Data Overlays**
- Make pertinent and real-time data available when and where it is needed, enabling your employees to make better, faster, more informed decisions.
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Amar P. Patel, DHSc, MS, NRP, CHSE, FSSH
Chief Learning Officer

CAE HEALTHCARE

Your worldwide training partner of choice
Global Leader of Simulation Training

- Making air travel safer
- Allowing defense forces to be mission ready
- Ensuring highly reliable healthcare
Changes in learning methods over the last 25 months

Most Valued in Education: Highly effective learning methods at a premium

Flexible Solutions: Mid-Cost learning methods with good retention

Value Choices: Low-cost options with moderate outcomes

Reduced Time to Proficiency

Via AI-driven, cutting-edge technologies and a scientific approach built over two decades, we have obtained a deep understanding of how the human mind learns at its best. We have collected billions of data points from millions of learners and curated thousands of books in the process. This expertise has led to hyper efficient formulas and systems that allow people to learn twice as fast as with traditional methods.

50% Reduced Time to Proficiency

100% Competent Employees
The Importance of Reference Tools

- Low cost but effective in communicating product layout/knobology.
- Double as reference material when training patients.
- Can display more information at one time than a laptop screen.
- Address the digital immigrants who still prefer to hold something.
- Act as a training aid which can be referenced. Something familiar to people and easy to understand.
Case Study

CAE Anesthesia SimSTAT

Solution for clinical practice and recertification

- Real-world scenarios with responsive patient & inter-professional team
- Fully functioning operating room
- Interactive Medical Equipment
- Objective Measurement & Assessment
- Performance Feedback

- Continuing Medical Education (CMEs) Anywhere, Anytime
- #1 Methodology for Recertification
- 12,000+ Sold
Vimedix AR
Limitless learning
Thank you!
Transforming Healthcare Delivery through Mixed Reality

Jared M. Kutzin, DNP, MS, MPH, RN, FSSH
Associate Professor, Emergency Medicine & Medical Education
Senior Director, STAR Center, The Mount Sinai Hospital
Disclosure

• The views and opinions expressed in this content are those of the author and do not necessarily reflect the official policy or position of The Mount Sinai Hospital, Icahn School of Medicine, the Society for Simulation in Healthcare, or any other organization the author is affiliated with.

• The author provides consultation to E-Learning Design Center and MedVREducation but has received no financial compensation for these services.
- Virtual Reality
- Augmented Reality
- Mixed Reality
Questions?
Questions?
Contact us!

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Thank you for joining!