

TODD DADALEARES

Healthcare Simulation Operations Specialist | AV Engineer

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SUMMARY

Healthcare simulation operations leader with 20+ years of experience designing, building, and running clinical simulation programs from ground-up lab builds to multi-campus AV infrastructure. Professional AV engineer with a track record of standing up simulation centers and delivering large procurement programs on budget. Published author and working mixing/mastering engineer.

FEATURED PROJECT — L.L.BEAN LEARNING COMMONS SIMULATION CENTER

Southern Maine Community College, Brunswick, ME | 2024 – 2026

- Led the ground-up renovation and technology build-out of SMCC's newest clinical simulation facility, from unused space to a fully operational, multi-campus simulation program
- Directed the procurement and delivery of integrated AV systems, simulators, and clinical training technology, including networked AV infrastructure (Extron, Blackmagic, Biamp) — full equipment detail on page 2

CORE SKILLS

Simulation Program Operations & Design • Clinical AV Systems Design & Integration • Medical Device Calibration & Repair • Equipment Procurement & Vendor Negotiation • Staff Hiring, Training & Leadership • Standardized Patient Program Coordination • Budget Management and Visioning • Audio Engineering

PROFESSIONAL EXPERIENCE

Senior Simulation Operations Specialist 2022 – 2026

Southern Maine Community College — South Portland & Brunswick, ME

- Rebuilt and upgraded SMCC's Health Sciences simulation lab from the ground up - replacing outdated, non-functioning equipment with new broadcast standard AV systems across two campuses
- Hired and trained new simulation staff, and created two new full-time positions through the Maine Community College System
- Calibrated, repaired, and maintained simulation equipment while managing vendor contracts/warranties
- Created scenario templates and simulated patients for nursing and respiratory therapy programs

Chief Simulation Specialist 2010 – 2022

Hannaford Center for Safety, Innovation and Simulation — Portland, ME

- Ran thousands of simulations and standardized patient encounters for Tufts University School of Medicine and multiple MaineHealth residency programs, including Anesthesia, Emergency Medicine, Internal Medicine, Surgery, and Pediatrics
- Hired, trained, and led a team of simulation specialists and built multi-tiered training programs for staff
- Created the Innovation Lab - designed multiple objects and repeatable moulage

Simulation Specialist/Operations Manager 2003 – 2010

University of New England, College of Health Professions — Portland and Biddeford, ME

- Founding, HRSA grant-funded Human Patient Simulator Technician — built simulation technology and operations infrastructure for UNE's Clinical Simulation Program

CREDENTIALS, PUBLICATIONS & MUSIC

- Co-author, "Comprehensive Healthcare Simulation: Operations, Technology and Innovative Practice" (Springer) — chapter with Dr. Scott B. Crawford
- ASCAP member - over 100 songs published

EQUIPMENT & TECHNICAL SYSTEMS

SIMULATION SYSTEMS

- iSimulate REALITI 360 and Microsoft HoloLens — mixed reality simulation systems
- CAE (MUSE/HPS) simulators and control systems
- Laerdal SimMan, SimMan 3G, SimBaby, VitalSim simulators, and AVS recording system
- Medvision Leonardo and Arthur high fidelity simulators and systems
- Medvision MATT auscultation simulators
- Gaumard family of simulator systems
- Harvey cardiovascular simulator and curriculum package
- Inventive Medical HeartWorks TTE/TEE cardiovascular simulator
- SimBionix GI-Bronch Mentor bronchoscopy/endoscopy simulator
- Blue Phantom CVA, Femoral, FAST, and Thora/Paracentesis ultrasound simulators
- MIMIC DV Trainer robotic surgery simulator (S and SI versions)
- Kyoto Kagaku Lumbar Puncture, Arterial Access, and Otolaryngology/Ophthalmic simulators
- Sonosite ultrasound machines
- Ingmar Medical lung compliance test systems
- FlashForge Finder 3D printers — moulage and prop fabrication

CLINICAL AV & RECORDING SYSTEMS

- B-Line Medical SimCapture ultra-portable recording systems
- KB Port ETC1 portable multi-camera/microphone AV recording units
- Crestron touch-screen control systems
- Multiple analog and digital cameras, professional microphones, smart systems
- Marshall cameras, camera controllers and microphones
- YouTube and Panopto streaming/recording systems

L.L. BEAN LEARNING COMMONS — NEW AV INFRASTRUCTURE (2024–2026)

- Extron AV-over-IP streaming encoders/decoders
- Blackmagic Design video switchers and mixers
- Marshall beamforming ceiling microphone arrays
- Biamp networked audio DSP systems
- Networked AV signal routing and system blocking/design across two campuses

SIMULATION & CLINICAL SOFTWARE

- Elevate Healthcare LearningSpace
- Maintenance Connection, EndNote, Google Suite
- Adobe Premiere Pro, Microsoft Office Suite & Teams, Prezi

PROFESSIONAL AUDIO & MUSIC PRODUCTION

- DAWs: Apple Logic Pro, MainStage, Cubase XT, Studio One 5
- Presonus + Allen and Heath mixers
- Adam Audio monitors, MOTU interfaces
- Arturia synthesizers, Akai MIDI controllers
- Vox amps, Yamaha drums, OME banjos
- GIK Acoustics room treatments