

MARK KEMBEL

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CHIEF AI OFFICER · BOARD CHAIR of Kembel Technologies

Merged TwinCore, SemiCore and Global Surgical AI Healthcare into one company. All three companies are focus on Digital Twin. SemiCore has a new chip information that can be developed to work with surgeries to provide necessary information on the patient.

TwinCore **is a real-time industrial digital twin platform** — a system that creates a continuously updated digital replica of physical assets, equipment, plants, or infrastructure. It allows engineers, operators, and executives to simulate changes, predict outcomes, and make decisions without risking the live environment.

CHIEF AI OFFICER · BOARD CHAIR · HEALTHCARE TRANSFORMATION EXECUTIVE

Enterprise AI, healthcare modernization, and large-scale transformation leader with years driving modernization across complex clinical, operational, and regulatory environments. Architect of next-generation surgical intelligence systems integrating AI-driven digital twins, multimodal medical imaging, and the new class of NVIDIA AI PC chips enabling real-time, on-device surgical decision support.

Combines deep technical expertise (AI, digital twins, medical imaging, enterprise data systems) with board-level governance, financial stewardship, regulatory leadership, and cross-functional enterprise execution. Recognized for commercializing advanced AI platforms, governing AI systems aligned with FDA 510(k)/De Novo, HIPAA, and NIST AI RMF, and delivering safe, ethical, and scalable AI for national healthcare deployment.

Built multimillion-dollar companies, secured enterprise partnerships with Microsoft, Boeing, and Intel, and led cross-functional teams across engineering, clinical operations, legal, compliance, and enterprise IT. Experienced board chair with governance oversight, capital strategy, enterprise risk management, and long-range strategic planning.

CORE EXECUTIVE COMPETENCIES

Enterprise Leadership: Large-Scale Transformation · Cross-Functional Influence · Operational Excellence · Enterprise Risk Management **Healthcare Modernization:** Clinical Workflow Optimization · Digital Twin Systems · Imaging & EHR Integration · Regulatory Compliance (FDA/HIPAA) **AI Leadership:** AI Strategy · Responsible AI · Computer Vision · NLP · Predictive Analytics · On-Device AI (NVIDIA Holoscan-class, GROOT-H, Cosmos-H) · AI Databases · NIST AI RMF **Governance & Legal Partnership:** Board Governance · Legal Counsel Collaboration · Contract Negotiation · Regulatory Strategy · Risk Mitigation

Financial Stewardship: Budget Ownership · Multi-Bank Financing · Capital Strategy · Stock Offerings · P&L Management **Enterprise Execution:** SaaS Monetization · Cloud (AWS/Azure) · Edge + Cloud Hybrid AI Architecture · Data Platforms · GTM Strategy · Enterprise Partnerships

BOARD & GOVERNANCE LEADERSHIP

Chairman of the Board — Global Surgical AI Healthcare (GSAI)

Kirkland, WA | 2025–Present · Provide full board governance, including financial oversight, enterprise risk management, and long-range strategic planning. · Partner with legal counsel on regulatory strategy, corporate structure, contracts, and compliance frameworks. · Led multi-bank financing efforts, negotiating loan structures and capital access to support clinical deployment and enterprise scaling. · Oversaw governance alignment with FDA 510(k)/De Novo, HIPAA, and NIST AI RMF. · Directed enterprise partnership strategy with hospitals, surgeons, and clinical leaders to drive multispecialty adoption. · Guided development and commercialization of the AI DB Core Digital Twin Platform™, enabling surgical planning, guidance, and analytics.

Chairman of the Board — AI Online Developer+ Inc.

Kirkland, WA | 2019–Present · Provide governance across AI platform development, commercialization, and enterprise client delivery. · Manage corporate budgets, financial planning, and operational oversight across multiple business units. · Work closely with legal teams on contracts, IP protection, and regulatory compliance. · Directed creation of a Healthcare AI Services Division delivering clinical AI solutions to enterprise clients. · Oversaw development of AI governance frameworks ensuring ethical, compliant enterprise deployment.

Founder & Chairman of the Board — InterTest.com

Bellevue, WA | 1995–2002 · Built the company into a multimillion-dollar enterprise serving Fortune-level clients. · Negotiated strategic partnerships with Microsoft and Boeing, supplying trained software testers and enterprise training programs. · Managed full corporate budget, financial operations, and long-term planning. · Led development of the company's stock offering, including term sheet creation, equity structure, and investor communications. · Secured multiple six-figure bank loans to support expansion and enterprise delivery capacity. · Authored HR manuals, governance procedures, and corporate operating rules across multiple companies.

EXECUTIVE OPERATING EXPERIENCE

Chief Executive Officer — Global Surgical AI Healthcare (GSAI)

Kirkland, WA | 2025–Present · Architected the AI DB Core Digital Twin Platform™, enabling real-time surgical planning, guidance, and analytics. · Built AI-driven surgical systems integrating computer vision, AR/VR (Apple Vision Pro), and multimodal clinical data pipelines. · Designed enterprise AI database architecture supporting CT, MRI, X-ray, ultrasound, and surgical video workflows. · Defined SaaS + per-procedure monetization models enabling scalable hospital adoption. · Led FDA regulatory strategy, AI governance alignment, and compliance frameworks. · Established early hospital partnerships and multispecialty clinical expansion strategy. · Collaborated with legal, compliance, and clinical leaders to ensure safe, ethical, and compliant AI deployment.

AI HARDWARE STRATEGY & NEXT-GEN PLATFORM DEVELOPMENT

Led the integration of the new NVIDIA AI PC chip platform into the AI DB Core Digital Twin Platform™, enabling the first generation of real-time, on-device surgical intelligence.

Key Achievements: · Architected the on-device intelligence engine using next-generation NVIDIA chips (Holoscan-class, GR00T-H, Cosmos-H) delivering millisecond-level inference for surgical decision support. · Enabled continuous intra-operative digital twin updates, fusing live imaging, sensor data, robotic feedback, and predictive modeling. · Designed the bidirectional integration model: digital twin <> AI agent <> surgical robot <> imaging pipeline. · Demonstrated closed-loop robotic assistance powered by real-time predictive modeling. · Integrated multimodal fusion (CT/MRI/X-ray + endoscopic video + ultrasound + sensor data) as a native, real-time capability. · Developed the commercialization narrative positioning the chip as the core intelligence layer for next-generation surgical systems. · Integrated with NVIDIA's Rheo hospital-twin framework, enabling OR scheduling, patient flow optimization, and hospital-wide operational intelligence. · Positioned the AI PC chip strategy as a competitive differentiator for hospitals adopting surgical intelligence systems. · Updated the enterprise business plan and platform roadmap to reflect the chip's role in enabling predictive, adaptive, continuously learning surgical systems.

Founder & Chief Executive Officer — InterTest.com

Bellevue, WA | 1995–2002 · Built a high-growth software testing and training company with Microsoft as a strategic client. · Delivered enterprise training programs adopted by Microsoft, Boeing, and other major corporations. · Partnered with Intel to integrate AI training programs into enterprise engineering workflows. · Owned full P&L, operations, sales, marketing, and enterprise delivery. · Led development of a Windows printer testing SDK used by OEM partners. · Worked closely with Microsoft Legal to secure OEM sample files and ensure compliance with licensing and IP requirements. · Secured multi-bank financing to support expansion and workforce development.

Founder — AI Online Developer+ Inc.

Kirkland, WA | 2019–Present · Built and scaled AI platforms across machine learning, NLP, and computer vision. · Delivered enterprise AI training programs for ML Engineering, Data Science, and AI Engineering. · Led commercialization strategy and enterprise client acquisition. · Partnered with legal teams on IP protection and enterprise contracts.

Software Test Manager / Engineer — Microsoft Corporation Redmond, WA | 1990–1995

· Managed one of the broadest cross-group coordination efforts in the Windows 95 printing ecosystem, spanning the Printer Driver Group, Printer Development Team, Microsoft Applications Printer Group, external application testing teams, and OEM partners. · Directed multi-team reporting and alignment, consolidating engineering, applications, and OEM status into executive-level updates for VP Brad Silverberg and Test Manager Lin Shaw. · Oversaw global OEM compliance (HP, Epson, Canon, Brother, Lexmark), ensuring standards alignment, driver readiness, and rapid integration of updates. · Partnered with the Printer Program Manager on code reviews, TrueType font validation, and end-to-end printing requirements across the Windows ecosystem. · Personally executed critical-path testing during major code shifts to accelerate fixes and maintain engineering velocity. · Provided oversight to Printer Networking testing and contributed to Windows Developer Conference presentations promoting Windows 95 printing technologies.

TECHNICAL EXPERTISE

AI/ML: Machine Learning, Deep Learning, NLP, Computer Vision Cloud: AWS, Azure, Enterprise Cloud Systems Data: AI Databases, Data Lakes, Pipelines, Big Data Architecture Healthcare: EHR Integration, Medical Imaging, Clinical Systems Programming: Python Frameworks: AI Governance, Risk Management, Compliance

EDUCATION

Eastern Washington University — Studied, Management Information Systems — GPA 3.85
Spokane Community College — A.A., Business Administration — GPA 3.85

AWARDS & RECOGNITION

Microsoft Ship It Award - Presented by Bill Gates Awarded for engineering excellence and cross-team impact during Windows 95 development, recognizing contributions to enterprise-grade reliability and OEM ecosystem success.

Top 10 AI Leaders to Follow in 2026 - MSN.com National recognition for leadership in AI-driven healthcare transformation, digital twin systems, and next-generation surgical intelligence platforms.

Certificate of Recognition - Frontier Blaze

2025 Frontier 100s December 19th, 2025. For remarkable contributions, visionary insights, and dedication to excellence in your industry.

TARGET ROLES

Chief AI Officer (CAIO) · Head of AI Strategy & Operations · Healthcare AI Executive CEO / Founder · Board Director (AI / Healthcare / Technology)



Ship Award from Bill Gates