William Moulton

CTO, Technologist, Engineer, Designer

William Moulton Bill is a biocybernetic systems engineer, entrepreneur, strategist, and advanced technology developer and engineer. He has extensive experience in leading agile multidisciplinary development teams, and has successfully pioneered dozens of breakthrough software and hardware technologies for both industrial and consumer markets. Mr. Moulton specializes in total life cycle systems design, disruptive technologies, emerging markets, AI, improving human-computer interaction, and has produced many new technologies including swarm search agents, semantic link analytics, data visualization, global simulation, expert systems, speech recognizers, VLSI and FPGA chips, adaptive controls, autonomous robotics, VR virtual reality systems, and DSP audio effects engines. His teams have delivered speech recognition solutions for mission critical

floor trading of securities (NYSE, ASE), designed and delivered management information trend analytics dashboards, engineered AI industrial process controls, streamlined multimedia production workflow systems, and created numerous apps and tools for consumer and professional arts, and consumer electronics, and search engines for career and college planning. Bill has delivered a broad spectrum of technology innovations to markets and clients as an executive, cofounder, inventor, engineer and product manager. Some technology innovation 'world 1sts':

• Commercial 3D stereoscopic television system and circular polarization system - **DDD**. (Stereographics, Atari 1982)

• Consumer personal computer based computer music systems - **MusiCalc**, **ScoreWriter**, **Colortone** (Waveform 1983)

• Personal computer expert system out-performing mainframes for defense satellite failure mode prediction - **Expert Advisor**. (Aerojet 1985)

• Virtual reality gaming systems - **PowerGlove**, **3E System**. (Umecorp, Hasbro, Mattel 1987)

• Expert system applied to manufacturing robot assembly line fault automated recovery - **Rocky Robot**. (Umrcorp, General Motors 1987)

• Intensive closed system recirculating aquaculture expert system - **RIAX**. (Umecorp, Oceanic Institute 1988)

• Viable speech recognition for Wall Street brokers and traders, with world's best noise cancelling microphones for NYSE, ASE - **UmeVoice**. (UmeVoice 1994)

- Real-time NTSC and D1 quality video conferencing boards working over standard phone twisted pair wires - **OCB Conference Board**. (Golden Media 1997)

- Just-in-time automated voice recognition video transcript synchronization display and keyword video search system - **MediaPod**. (Vodium 2000)

- Radar based continuous speech re-animation and synchronization system for foreign language film dubbing - **FilmLanguage**. (Tricoast Films 2001)

- Real-time 3D VR web search visualization system using autonomous swarm search agents - **Surf3D**. (Navagent 2002)

- Fully integrated audio, video, special effects multimedia production pipeline workflow management system - **Mediac** (Ursa Minor Arts & Media 2003)

- Geospatial real time news visualization app for PCs - **NewsMatrix**, **Earthquake3D**. (Navagent, Wolton Designs 2004)

- Full spectrum DSP brainwave binaural induction system - **Hypnos Vocoder**. (Wolton Designs 2005)

- User configurable open source collaborative business intelligence system and emergent trend visualization and Collaborative Business Intelligence Networks - **CBIN**. (Energy Voyager 2007)

- Open-source desktop attention share trend tracking system - **Trend Trakker**, **Trenddex**. (Navagent, Institute for Global Futures 2008-9)

- Integrated college and career planning and crosswalk

search app and web application - **Colleges & Careers**, **Career Paths**, **Scholarship Explorer.** (SLFC 2014)

William Moulton | LinkedIn