

Michael A. Hutton

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Professional Summary

- A senior software engineering professional with three decades of hands-on international experience and a proven record of accomplishment in the successful deployment of large scale, high performance transaction processing systems around the world.
- A respected technology professional in the international gaming industry, with 25 years of public-sector gaming industry experience. He has contributed to the technical implementation of many of the automated Lottery systems operating in the world today.
- An early pioneer in the delivery of consulting services and software development using geographically diverse teams. He has over 20 year's experience working with international teams consisting of multiple client locations, remote development teams, and individual remote developers. He is adept at working across time zones, languages and cultures.

Professional History

President, Architectural Cybernetics Ltd (February 1998 –present).

Architectural Cybernetics is an independent software engineering consultancy providing software analysis, design, development, and integration services.

Selected Client Assignments

- Development of new IT infrastructure features and ongoing support for the SARS-COV-2 vaccination program rollout in New York City. Responsible for all vaccine inventory management functionality in a fast paced quickly changing environment.
- Sub-contract development and support services to the New York City Health Department's Citywide Immunization Registry (CIR). The CIR operates a portfolio of online and batch systems which collect and manage the records of all immunizations reported by NYC health care providers.
- Consulting support for a California automaker related to a third party provided JEE based manufacturing automation system.
- Design and development of a prototype POS system for dispensing lottery products (both physical instant tickets and online games) at the retail point of sale. The system was launched in two successful pilots in Connecticut and at Logan International airport in Massachusetts.
- Design lead and principal developer of a JEE based video lottery gaming server for the Chinese National Sports Lottery. The system was constructed entirely with open source technology, including an in-memory database, and supports up to 20,000 gaming machines and process over 1,500 transactions per second. The gaming system integrates with the gaming machines and the other components of the distributed architecture using RESTful APIs.
- Architect and design consultant for a project to build a national account-based Lottery gaming system for the China Sports Lottery. The system employs an SOA utilizing RESTful APIs in order to support player account management and retail location management. It is designed to support integration of diverse third party game providers using a standardized REST API.
- Architecture, design and development of a JEE based mobile gateway for lottery ticket sales for the Shanghai Welfare Lottery. The gateway exposed a REST API that enabled integration between Internet based mobile sales application providers and the Lottery's legacy central gaming server.
- Architect, design lead, and principal developer of a JEE based Internet medical survey system. The system allows researchers to design complex custom medical surveys for targeted populations and deploy them on the Internet without any incremental web or back-end development.
- JEE architect/developer for the development of an advanced lottery administration system for the Pennsylvania Lottery. The system runs all typical lottery retailer "back office" administration for the lottery (IBM Websphere).
- Appointed as an Expert Witness for the plaintiff in the area of lottery technology to the High Court of Justice in the UK in relation to a successful lawsuit against British Telecom by an independent UK lottery operator.

GTECH Corporation, West Greenwich, RI (Feb 1989 - March 1998)**Principal Consultant - New Business Development** ('96-'98)

Staff consultant reporting to executive management. Responsible for technical support of the strategic business development activities of the corporation. Also served as the senior technical liaison with outside organizations.

- Leader and principal technologist on an interdisciplinary team chartered with developing the overall strategy, business plan, marketing plan, and technology approach in support of GTECH's entry into the interactive gaming market. Responsible for all technology aspects of the program.
- Led programs to deliver multiple Internet lottery product prototypes, including a Web based Lottery industry information/E-Commerce service, and a Java based consumer Internet wagering service.
- Provided technology consulting to corporate due diligence activities related to partnerships and acquisitions.
- Researched and designed original technical solutions in support of potential non-Lottery business opportunities.

Director, Software Architecture Group ('95-'96)

Responsible for the administration of an internal R&D and consulting group consisting of the Company's most senior engineering professionals.

- The group spearheaded a large-scale strategic research project for the purpose of developing a vision and architecture for the Company's next generation of on-line systems. Resulted in an innovative vision of the future, and a comprehensive technical specification, which became a reference guide for ongoing systems development.
- Conducted research including pilot projects aimed at understanding the applicability of Object Technology, primarily in the areas of OOA/D (OMT), OODBMS, and object middleware (CORBA). Introduced best practices and lessons learned into the mainline organization.

Director, Software Communications Group ('93-'95)

Managed the organization responsible on a worldwide basis for the development, deployment, and maintenance of the communications software required to operate the Company's networks.

- Established the Software Communications organization as a formal function. Defined the group's vision, mission and charter. Performed the organizational design, work process definition, and staffing of the organization.
- Provided network technology consulting and solutions to Gaming and Lottery operations around the globe.
- Succeeded in meeting all product/project delivery requirements. This included the research, design and timely delivery of the networking systems for the largest Lottery system in the world for the UK National Lottery.

Senior Technical Consultant - Communications Systems Engineering ('89-'93)

Reporting to the Senior Vice President for Technology, was assigned the task of defining the strategy and overall vision for the company's next generation of IT Networking Solutions.

- Led a team charged with the development of the overall architecture for the company's European communications systems. Delivered a set of concise technical specifications describing the architecture, interfaces, and protocols of the system.
- Managed the delivery of Datex communications subsystems to customers in Finland and Denmark. The project involved the identification and procurement of hardware, development of the software, and systems integration on-site in Scandinavia. Coordinated US based developers and third party developers in Finland. The systems were delivered on time and under budget.
- Conceived and managed a product development effort pioneering the use of inexpensive, off the shelf, PC technology as the basis for the network interface front-ends for Online systems. The completed project resulted in the reduction of the capital cost of deploying an Online/POS communications system by over 65 percent.

- Managed the successful deployment of a distributed hybrid leased-line/X.25 communications system to SNS in the Netherlands. The network was deployed in partnership with the Dutch PTT and involved the co-location of GTECH technology at PTT locations.

Control Data Corporation

Automated Wagering Division, Hackensack, NJ (1981-1989)

Principal Architect - Advanced Lottery/Business System ('86-89)

Reporting to the Senior Vice President for Systems, was responsible for the design, development, and implementation of Control Data's next generation Lottery system.

- Principal Consultant on an 18-month, \$2.5M project to create a totally new Online system from the ground up. The resulting system allowed CDC to successfully bid on and win contracts in numerous Lottery jurisdictions, and has since supported world record transaction volumes.

Consulting Software Engineer - Racing systems ('83-'86)

Responsible for technical leadership of CDC's Racing systems group.

- Assigned to deliver an integrated solution consisting of both On-Track and Off-Track Betting systems to the Totalizator Agency Board (TAB) of Natal Province, South Africa. Coordinated development efforts between the US and South African based development teams. Managed the installation on site in South Africa.
- Principal consultant on the team involved in adapting the Natal TAB system for domestic installation.

Senior Software Engineer - Racing Systems ('81-'82)

Responsible for the development of major components for the next generation of CDC OTB systems. Supported the installation of two systems in the Capital and Western OTB districts.

RCA Global Communications, New York City, NY (1979-1981)

Senior Programmer - Private Message Switching Systems

Participated in the development and assumed responsibility for the ongoing maintenance, support, and customer interface issues for private store and forward message switches deployed for the Japanese trading companies Mitsui and Mitsubishi.

Micro-Life Inc., Verona, NJ (1977-1979)

Team Leader - Microcomputer Systems

Pioneered the use of microcomputer technology for use in commercial grade business applications. Led a team charged with developing workflow automation applications for the Insurance industry.

Education

MIT CISR Summer Session for Technology Management (1996)

City College School of Engineering, New York, NY (Computer Science, BSCS Program, 1974-1977)

Numerous professional courses, seminars, and training programs.

Publications

"Techonomics" bi-monthly column in Lafleurs Magazine (12/99-10/01)

Professional Affiliations

Toptal™ Talent

Gerson Lehman Group Council Member (2003 – present)

Giga Expernet Expert (1998-2003).

Member, Stevens Alliance for Technology Management 1996-1997