

# Tomo Lennox

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Experienced technology leader and consultant with an ability to optimize complex technology projects. Combines hands-on skills, proven leadership and creative problem solving to reduce risk and to achieve the highest levels of productivity. Self-motivated and goal oriented with strong communications and a process oriented approach. Combines proven processes with the latest innovations in technology.

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| <input checked="" type="checkbox"/> Inter-departmental Coordination  | <input checked="" type="checkbox"/> QA and Testing               |
| <input checked="" type="checkbox"/> Mergers and Acquisitions         | <input checked="" type="checkbox"/> Product Vision and Strategy  |
| <input checked="" type="checkbox"/> Remote Site Management           | <input checked="" type="checkbox"/> Information Security         |
| <input checked="" type="checkbox"/> Staff Development and Motivation | <input checked="" type="checkbox"/> Formal Methods and Standards |
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## **Bow Tie Computer Services , Plymouth Minnesota (Consulting) 8/2008 to Present**

Researching advanced software development methodologies using Lean methodology. Also, developing a product from inception to production; this is a great way to test a development methodology.

- Entrepreneurial product development using embedded micro-controllers and avr-gcc.
- Presented paper on Testing in an agile environment at Code Freeze 2009.
- Writing a paper on how leadership is missing from Lean and Agile descriptions.
- Technology consulting for OnGo Communications, a mobile marketing start-up.

## **Secure Computing Corporation, St. Paul Minnesota (Internet security) 4/2001 – 5/2008**

Secure Computing produced the highest security firewall commercially available, used by military, government and financial institutions. It also produced the number two web filer in the world, used by schools, governments, companies of all sizes and entire countries. In 2008, most of the top management of the company was removed and the company was sold to McAfee for 465 million dollars.

### **Director Web Filtering / Director of Product Planning / Project Manager, Firewall Development**

Reported to the Senior Vice President of Engineering with responsibility for the development and maintenance of major products, as well as the integration of companies we acquired. Led four different groups of increasing size. Also spent a year revamping the Product Planning organization.

- Increased quarterly revenue from 2 million to 9.7 million by improving the product.
- Took a near dead product and turned it into the leading high-security firewall in the world.
- Implemented a system capable of distributing millions of rated URLs to thousands of customers in hours. Also added a feedback system capable of collecting feedback and browsing habits from millions of users and processing it into URL ratings.
- Designed a system for provisioning, licensing, activating and upgrading all products.
- Moved from sixth to second in market share by acquiring and integrating our competitors.
- Directed managers in software development, test and web analysis in a team of 32
- Successfully managed remotely teams in four cities around the world
- Trained engineers to be managers and then to be directors.
- Managed very demanding military, government and financial customers.
- Re-designed the IVR programming to simplify customer interaction.

**Bow Tie Computer Services, Maple Grove Minnesota (Consulting) 4/1995 to 4/2002**

Bow Tie is my consulting corporation, specializing in software quality assurance, ergonomics and contract management.

- Simulated the interaction between network security threats for Secure Computing.
- Implemented FDA-style testing program for Nellcor Puritan Bennett
- Improved ergonomic design for Data Key and Secure Computing.
- Provided contract management for Access Management Corp. and Wave Technologies

**DataMap, Inc., Eden Prairie Minnesota (Geographic Information Systems) 4/1990 to 4/1995**

DataMap was a pioneer in the Geographic Information Systems field, providing software technology to other companies, in addition to selling its own products and maps.

**Vice President, Research and Development**

Reported to the President with responsibility for the implementation of our largest project and the management of the network infrastructure and all development resources.

- Developed a network server for the insurance industry that turned home and business addresses into insurance ratings using cutting edge Geographic Information Systems technology. (I, personally, installed the server in a large IBM based computer center.)
- Sought strategic partners through, industry analysis and networking, trade journals, conferences, and developing relationships
- Developed a superior geocoding technology to find the location of any U.S. address.
- Active part of the executive team that steered the company.

**Bow Tie Computer Services, Maple Grove Minnesota (Consulting) 8/1985 to 4/1990**

Pioneered human-computer ergonomic standards as part of the IEEE and Human Factors Society standards committees, and developed a niche market for practical ergonomic design. As an experienced software developer, I knew things about developing software that the PhDs did not. I had access to the very latest ergonomic research from the committees, so I could identify what was difficult about existing users interfaces.

- Pioneered human-computer ergonomic standards as part of the IEEE and Human Factors Society standards committees, and developed a niche market for practical ergonomic design
- Designed and programmed a real-time disk controller for Control Data GSD division.
- Improved user interface for carton filling machines at TetraPak.
- Developed a digital X-ray scanning and archiving system with three UIs for Mindax.
- Designed an advanced motion control system UI for Hybritech.
- Patented technology the can measure time in picoseconds for WaveCrest.
- Developed a portable disk testing systems using a custom test language for Control Data.
- Wrote pacemaker programmer test plans to satisfy FDA certification.

**Micro Component Technologies, Shoreview Minnesota (Integrated Circuit Testing) 4/1984 to 8/1985**

MCT built integrated circuit testing machines for integrated circuit makers.

**Manager, Software Development, Handler Division**

- Lead a team of 11 writing custom real-time operating system and developed heterogeneous multiprocessing with 11 processors from scratch.

**Medtronic**

**12/1982 to 4/1984**

Though Medtronic is known for its cutting-edge pacemakers, it also was a leader in developing doctor-friendly computer interfaces for them.

**Manager, Software Assurance, Instrument Division, 1983 to 1984**

- Pioneered medical Software Quality Assurance to meet new FDA standards.

**EDUCATION:**

B.A. in Physics from Hope College, Holland, Michigan. Emphasis in Computer Science, Electronics and Management.

**PERSONAL:**

US Citizen. Security Clearance.

Native speaker of English. Useful skills in German, Japanese and ASL.

**PAPERS:**

Want Faster Projects? Structure for Test, Code Freeze 09 conference Jan 15 2009

The Need for Coordinate Quality Metrics in Predicting Accuracy in GIS Queries, Thirteenth Annual ESRI User Conference, May 24, 1993.

Precision Planning with Small Area Demographics, URISA 1993 Annual Conference Proceedings. Atlanta: URISA, 1993. 3: 73-79

Ergonomic Guidelines for Computerized User Interfaces, Computer Standards and Interfaces - Vol. 5 No. 3, 1986. Presented at IEEE standards conference, May 1985.

More Standards, More Troubles, Third Software Engineering Standards Applications workshop, IEEE Computer Society, October 1984.

Development of a Microcomputer-Based Adaptive Testing System, Office of Naval Research, Report ONR-ASC-82-01, June 1982

**PATENTS:**

Number 4,908,784: Method and Apparatus for Asynchronous Time Measurement.

Number 7,315,801: Network Security Modeling System and Method

Application Number 20070130350: Web Reputation Scoring

**PRODUCTS:**

Audio Dart Master, an accessible dartboard. <http://audiodartmaster.com>

*For more information, see my web page, <http://tomoLennox.com>*