# *Andrew P. Sargent*
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**EDUCATION:**

*University of Vermont – 1982-1986*
B.S., majoring in computer science with a minor in electrical engineering
*University of Vermont – 1986-1989*
B.S., majoring in electrical engineering with a concentration in digital circuits

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**SKILLS:**

***SAP–xMII (Lighthammer), JavaScript, HTML, CSS, XML, XSLT, AJAX, C/C++, VB, MS-Office***
***MS-Project, Various SCADA/PLC Systems, MS Windows, Linux, Embedded Systems***

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**EMPLOYMENT/ CONTRACTING EXPERIENCE:**

***Data2Info*** *(October 2002–Present) – Founded and currently operating*

- Implemented xMII Mine to SAP integration for automated production order processing for Peabody Energy in St. Louis.
- Designed and developed comprehensive prototype of Omya's equipment effectiveness and production reporting system for worldwide rollout using Lighthammer (SAP xMII) technologies.  Currently engaged to build production version for pilot at large plant in Molde Norway.
- Built demo Lighthammer system for IBM showing ability to gather information on process equipment from proprietary database system and produce an OEE dashboard with drill down capability
- Authored technical and user manuals for shipping software system
- Analyzed and produced requirements for an enterprise wide product tracking application across three plants
- Provided services to retrofit a communications network of power rectifiers
- Converted MobileSCADA to a Java (J2ME) MIDlet to provide the same functionality on Nextel cell phones
- Developed MobileSCADA system prototype to provide real-time access to control systems via Palm based handhelds over a 802.11b network for Wyeth-Ayerst Labs
- Performed requirements analysis for a large product tracking application at a minerals processor

***Hallam Associates*** *(August 1995–October 2002) - Operated software division*

- Wrote ASP code for medical software group providing medical application via an ASP model
- Designed JNI SCADA interface for use by IBM to connect MQSeries to an Intellution SCADA
- Built emergency notification system for Wyeth-Ayerst Labs.  In case of emergency, the system placed calls to security, paged the plant with pre-recorded message and sent messages to responsible support personnel via text pagers
- Work extensively with the sensor integration group at IBM to integrate PostBoard and ETSS with the new sensor domain.  Ghostwrote portions of papers for presentation by IBM staff at sensor trade shows.
- Architected and built an advanced design tool used by client to create design specs for transformer insulation

***Applied Logic Systems*** *(September 1989–August 1995) - Founded and operated*

- Developed advanced production alarming software that was sold as a product.
- Produced a series of databases and utilities to convert existing SCADA to another vendor's format
- Built a sophisticated bill of materials application in AutoLisp and Delphi that interfaced to AutoCAD to automate a custom furniture maker's design

***Omya*** *(1982-1989) - Various CO-OP positions*

- Wrote order processing system on AS400 using RPG III
- Created production reporting system to communicate with Modicon PLCs
- Built simulation software used to track waste for minerals process production line using BASIC on Apple IIe

*Note:  In the interest of brevity, only a few projects have been included in the above digests.*