

ANDY HUTTENGA

Environmental Science Division
Argonne National Laboratory

Education:

- M.S. Illinois Benedictine College, Management Information Sciences, 1994
- B.S. Trinity Christian College, Computer Science and Business Administration, 1991

Professional Experience:

- 2002-Present Information Systems Analyst/Network and Security Administration
Environmental Science Division
Argonne National Laboratory

Project Related Work

Designed databases and wrote the code for many diverse projects from multiple government agencies. Built Internet and Intranet sites with several levels of security and rich features. Integrated complex software and simplified or automated processes.

Department of Homeland Security

Developed interactive web sites to facilitate communication between DHS and stakeholders. Implemented advanced security measures and automated complex processes. Presented demonstrations and training to DHS and the National Guard. Received multiple awards from different sponsors in recognition of the work performed.

Wireless Technology LDRD

Captured data wirelessly from legacy sensors while simultaneously capturing GPS data wirelessly and married the two pieces of information together into a database record on a laptop. Programmatically transferred a database and associated picture and sound files from a PDA and combined the files into a single zip file for transfer over the internet.

National Guard Bureau Range Management System

Designed the SQL Server database and developed the code to enable the sponsor to manage the inventory information of 6,000 National Guard Ranges over the Internet. Provided the capability to approve changes through an approval tracking feature. Communicated directly with sponsor to define needs and obtain feedback.

Bureau of Land Management

Designed an XML Internet site to allow the sponsor to save money by updating Range Management Plans online. The site features an automatic change tracking system and a way for the public to view the latest information without the need for printing paper copies that become quickly obsolete. Migrated the system from XML to a database and transferred the site to the sponsor.

Adaptive Sampling Model

Designed interface in VB.Net to support adaptive spatial sampling. Graphically displayed results and provided ability to interface with other programs. Received a copyright in effect until 2081.

HEU Transparency

Built a interactive database driven web site that helped track the tasks involved with Russian trips..

System Administrator and Cyber Security Program Representative

Primary administrator of a 100+ node network and 10 servers. Migrated EVS to a switched network, installed a wireless network, and consolidated servers. Redesigned network to segregate public, private, and guest systems. Placed EVS computers behind the firewall. Learned and applied new computer technologies and programs quickly. Managed students or staff.

1999-2002 Systems Analyst
 Environmental Assessment Division
 Argonne National Laboratory

Project Related Work

Provided technical expertise for building dynamic, database-driven and secure web sites. Provided training to sponsors in developing and administering secure sites. Designed sites so that they could be self-maintained by sponsors. Assisted in documenting and transferring the sites to sponsors upon completion. Presented demonstrations of projects to potential new sponsors. Developed solutions for the following projects/sponsors: *Joint Warning System, Ground Water Protection Council, DOE Metals Database, Yuma Proving Ground, and the 611 Air Support Group, Alaska.*

System Administrator and Cyber Security Program Representative

Primary administrator of a 150+ node network. Administered 12 servers including database, web, email, domain, and backup servers. Migrated division from a Novell to Windows network. Provided computer support for several versions of Windows, Mac, and Unix systems. Coordinated a computer support team and trained employees on new technologies. Wrote and implemented procedures and practices to comply with DOE's\ANL's cyber security initiatives.

Research Interests:

Applying computing technology to facilitate and streamline environmental processes.
Developing integrated database, web, and GIS systems.
Maximizing uptime and throughput of computing systems.

Honors, Awards, and Grants:

2009 - Department of Homeland Security Performance Management Award
2008 - Argonne Director's Award
1996, 1998 thru 2002 – Argonne Exceptional Performance Award
1997, 2003, 2007 – Argonne Pacesetter Award

Publications:

Author or co-author of 3+ reports, conference publications, and presentations and a copyright.