

Frank G. Hellwig

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OBJECTIVE A director-level position combining my technical leadership and mentoring abilities with my system and software engineering skills.

EDUCATION *Master of Science*, Computer Science
Johns Hopkins University, Baltimore, MD
Concentration: Artificial Intelligence

Bachelor of Science, Electrical Engineering
Northeastern University, Boston, MA
Concentration: Computer Engineering

SKILLS *Cloud First*: Microsoft Azure, Azure Active Directory, Web Apps, Azure SQL
Interoperability: REST, JSON, HTTPS, Microservices, XML, XSLT, SOAP, AJAX
Back End: Node.js, Express, Java, Python, C#, ASP.NET MVC, PHP
Front End: HTML5, CSS3, AngularJS, jQuery, JavaScript, X11
Infrastructure: Visual Studio Team System (VSTS), Git, GitHub, SVN, NPM
Identity Management: OAuth2, Authorization Code Grant, Client Credentials
Database: SQL Server, PostgreSQL, MySQL, DeZign, Entity Framework, JDBC
Mobile: Responsive Design, Sencha Touch, PhoneGap
Business Development: Excellent at proposal technical volume authoring
Customer Relations: Focused on a *customer-in* Agile Scrum experience
Public Relations: Comfortable developing and delivering seminars and presentations

EXPERIENCE *Director of Engineering* May 2012 - Present
Buchanan & Edwards, Arlington, VA

Corporate leadership role as a technology evangelist for key enabling platforms including Node.js and AngularJS. Responsible for corporate engineering initiatives and championing technology accelerators.

- Managed and delivered a variety of cloud-based production applications for the U.S. Department of State. These applications were deployed in Microsoft Azure and used single sign-on using Azure Active Directory. They featured an open-architecture using a secure, bearer token-authenticated API.
- Systems included public diplomacy applications, a mobile travel application, a financial management application, a public job clearinghouse application, and an emergency incident management application.

Managing Principal October 2008 - April 2012
LynxBridge, LLC, Herndon, VA

Founded a small fifteen-person consulting company focused on providing skilled consultants in both the public and private sectors.

- Enterprise software architect on the Blue Devil Block 2 program. This Intelligence, Surveillance, and Reconnaissance (ISR) platform is a 350-foot airship with 2,000 pounds of intelligence gathering equipment.
- Chief software architect for the Vigilant program, a Northrop Grumman effort providing a collaborative intelligence system for first-responders and border security for North Africa.
- Principal engineer for various Northrop Grumman programs providing intelligence to the war fighter using mobile devices including iPhones and iPads. Provides geospatial intelligence with connectivity to back-end intelligence systems.

EXPERIENCE
(Continued)

Technology Fellow October 2005 - September 2008
Wells Landers, McLean, VA

Wells Landers was a consulting company providing engineering excellence to a broad client base. As a technology fellow, it was incumbent to have an eye out for the latest and greatest technology and present and promote that to our customers.

- Project lead supporting the Defense Common Ground Station for the Army (DCGS-A). Extensive and detailed programming experience integrating the DCGS metadata catalog in an enterprise-wide architecture.
- Created a Google Earth interface in Java to DCGS-A that displayed intelligence metadata and data on the Google Earth globe. This gave the war fighter an easy-to-navigate interface for searching and viewing signals intelligence, imagery, and IEDs.

Chief Scientist 1998 - 2005
RABA Technologies, Columbia, MD

RABA Technologies was a consulting company that originally focused on the NSA sector and then expanded into a variety of additional government and commercial areas. As a senior member of the staff, I had experience in both winning and executing on a number of very dynamic projects.

Senior Software Engineer 1993 - 1997
Boeing Defense and Space Group, Hanover, MD

The majority of my time with the Boeing Defense and Space Group was spent working on the Enhanced Tactical Radar Correlator (ETRAC) ground station for the U-2 very high-altitude reconnaissance aircraft. The ETRAC system provides commanders with imagery-based battlefield intelligence derived from the Advanced Synthetic Aperture Radar System-2 (ASARS-2) radar sensor carried on board the U-2 aircraft.

Software Engineer 1989 - 1993
GTE Government Systems, Rockville, MD

GTE Government Systems supplied the defense community with complete systems as well as on-site consulting. Developed a number of systems and applications for CIA and NSA.

Systems Engineer 1989
BiiN Federal Systems, McLean, MD

BiiN was a short-lived joint venture between Intel and Siemens to develop fault-tolerant computers. Previously, while I was stationed at NSA, we were one of the few sales this company had. After my Army tour of duty at NSA ended, I was employed by BiiN for a few months until they closed down in October 1989.

Signal Corps Officer 1985 - 1989
U.S. Army, Fort Meade, MD

Program manager of the Secure Battle Management Processor program in support of the Strategic Defense Initiative (SDI).

Co-op Student 1983 - 1985
Northeastern University, Boston, MA

Worked for various technology companies in the greater Boston area. Work included developing embedded microprocessor-based test equipment, engineering the transmitter logic for an anti-aircraft missile system (RADAMS), and designing equipment for measuring drift between atomic frequency standards such as those used for GPS.

PERSONAL

Commercial, instrumented-rated pilot with over 1,300 hours, mostly in a Cirrus SR20.