

**Dr. (LtCol) Michael L. Thomas**

Senior Computer Engineer SPAWAR LANT  
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**Education.**

- 2012 Pennsylvania State University, MSGIS, May 2012. MS GIS
- 2008 Air University, Maxwell AFB, AL, MS Strategic Studies, May 2008.
- 2003 Univ of Sarasota, Sarasota, FL, Doctorate in Information Systems.
- Dissertation Title – *“Software Development Effectiveness Based on CMM and SPI Frameworks”* Sep2003.
- 2000 Air University, Maxwell AFB, AL, MS Military Operational Art and Science, June 2000. (ACSC In Residence)
- 1993 Air Force Institute of Technology, Wright-Patterson AFB, Ohio, Post Graduate Certification in Software Engineering
- 1988 University of West Florida, Pensacola, FL., MA in Applied Statistics.
- 1984 University of the State of New York, Albany, N.Y., BS Mathematics

**Professional Experience.**

- Schlumberger Ltd, Melun, France, Field Engineer & Quality Control Analyst, Manufacturing Division. 1980-1986;
- USAF Senior Software Engineer. 1988-2001;
- National Guard Bureau (stationed at Georgia Tech), Chief Technical Projects Officer. 2001-2005;
- SPAWAR LANT Senior Computer Engineer (C4ISR and GIS) 2005-2012.

**Research Interests.** My personal research goals include

1. Further research into GIS data modeling and simulation.
2. Resolution of conflation issues and incorporation of GIS referenced Hyperspectral and Multispectral Imagery.
3. Mapping and correlation of events in real time assisted by social media, communications infrastructure and
4. GPS enabling is generating a new intelligence specialty.

**Organizations, Awards & Certifications**

2012 DoD Systems Engineering Acquisition Level I certification. Level II pending.  
2008 8th AF Cyber award for excellence in research in the field of Cyberspace while in residence at AWC  
2007 Lean Six Sigma Blackbelt for IT  
1996 Certified Software Quality Engineer (CSQE) ASQ

1993 Certified Quality Engineer (CQE), ASQ  
1988 Institute for Electrical and Electronic Engineers, American Statistical Association, Member Member, Pensacola, Florida

### **Most Relevant Recent Publications.**

1. Thomas, Michael, (2012). *"Mapping Evil, A GIS Analysis of the Activities of the Lord's Resistance Army of Uganda, 2009-2011."* Presented at the ESRI Conference, San Diego, July 2012.
2. Thomas, Michael (2011). *"Evolution of GPS Systems Architecture and Its Impacts."* *Communications of the IIMA 2010 Volume 10 Issue 4.*  
[http://www.iima.org/index.php?option=com\\_phocadownload&view=category&download=303:evolution-of-gps-systems-architecture-and-its-impacts&id=53:2010-volume-10-issue-4&Itemid=68](http://www.iima.org/index.php?option=com_phocadownload&view=category&download=303:evolution-of-gps-systems-architecture-and-its-impacts&id=53:2010-volume-10-issue-4&Itemid=68)
3. Thomas, Michael, (2011). *"Beyond GPS,"* Geospatial Intelligence Forum 2011 Volume: 9 Issue: 5 (July/August). <http://www.uscgf-kmi.com/mgt-home/333-gif-2011-volume-9-issue-5-julyaugust/4451-beyond-gps.html>
4. Thomas, Michael L., LtCol (Dr), USAF (USN); Pfeifle, William, CDR, USN; McElhannon, Jacqueline V., CDR (Dr), USN; (May 2008); *"Operating At The Convergence Of Sea Power And Cyber Power - Bringing The Fleet Resources To The Joint Force Commander";*
5. Thomas, Michael; Plaisent, Michele; Bernard, Bernard, Hallman, Steve; *"Using GIS and IT to Locate Illegal Crops,"* 2004 IIMA Conference, July 2004, Chicago Illinois. (Selected as best conference paper.)
6. Thomas, Michael, *"Software Development Effectiveness based on CMM and SPI Frameworks,"* Sep 2003, a Dissertation in Partial Fulfillment for the Requirements of the Doctor of Business Administration, University Of Sarasota.

**Recent Teaching.** Fundamentals of Geospatial Intelligence (2009-2012), Pennsylvania State University.

**Professional Memberships.** United States Geospatial Intelligence Foundation (USGIF), American Society for Quality (ASQ).

### **Collaborators in Last Four Years.**

BGen Mark Corson (USAR/Univ of Missouri),  
Dr. Pascal Pecquet (Univ of Quebec in Montreal),  
Dr. Prosper Bernard (Univ of Quebec in Montreal)  
Dr. Steve Hallman, Dept. Information Computer Science Park University.  
CMDR William Pfeifle (USN),  
CMDR Jacqueline V McElhannon, (USN).