

Mary Elizabeth Fraser  
BS IT, M.Sc. Telecommunications, CTEP  
Career Summary

---

As an IT enterprise and communications system technical Analyst, Mrs. Fraser began her current work for AMERICAN SYSTEMS CORPORATION and SAIC supporting the U.S. Department of Defense in the end of November 2006, first as an application systems developer and competitive prototype team member for the U.S. Marine Corps; then moving to OSD, Developmental Test and Evaluation, (DASD(DT&E), ASD(R&E) in May 2009. She has worked as a Staff Specialist, Action Officer, and Major Program T&E Analyst relating to SW defined networking radios and multi-platform Enterprise IT with threat mitigation. Elizabeth worked on multiple approved Major Program Test and Evaluation Master Plans (TEMPs), for strategies on technical IT testing and development, distributed service structures. She facilitated technical and test team product team events, and contributed test architecture research and reporting.

In over 10 years in military software test engineering and evaluation (USMC, Army, NAVAIR, DISA and DoD DT&E) Mrs. Fraser added to additional 15 years for Law Enforcement IT support, technology research and evaluation initiatives. She has earned an engineering school MS in Telecommunications, completed CISSP training, and held a Secret clearance. Her recent responsibilities have stressed Military Automated Information Systems (MAIS) and agile test and production of IT and communications systems, readiness and threat assessment prior to fielding.

Elizabeth is well versed in testing best practices such as Design of Experiments and has experience in developmental strategies for agile systems. She has *documented competitive prototypes' for cross-platform applications* (warehousing, IT consolidation), tactical wireless and military IT. As Assistant Team Lead for an OSD multi-organizational Assessment of Operational Test Readiness (AOTR), air communications system, Mrs. Fraser briefed and coordinated leadership's Concept of Test Briefs and attended, *advised, and reported on field testing* by military teams.

Mrs. Fraser has software testing certification (ASTQB), an international test and evaluation certification, CTEP, International Test and Evaluation Association (ITEA), and belongs to the Association for Computing Machinery (ACM).

Elizabeth served on several systems administration and technical help-desks and understands tiered Service Level Agreements for complex systems. She has written and edited a variety of technical documentation, manuals and online materials. Supporting OSD and DOJ, she has prepared research for technology projects (system security, rapid manufacturing, computer-aided dispatch, surveillance technology, and chemical evidence), and served customers in LAN-WAN technologies.

Earlier in her career, in Europe, Elizabeth served U.S. Forces as a local civilian technical analyst, public safety, with liaison responsibilities for French, British, Russian and U.S. coordinating commands, Berlin, Germany (U.S. Army Chief of Staff, Berlin Brigade).

## **EMPLOYMENT**

AMERICAN SYSTEMS CORPORATION, [*Same appointment as held with SAIC*] OSD Support: Science Engineering and Technical Advisor (SETA) appointment, November 2012 – June 2014

- Staff Analyst (III), Standards, Developmental Test and Evaluation, Contract Technical Support to the Deputy Director, Cyber and Information Systems, DASD (DT&E), ASD(R&E) OUSD(AT&L) SAIC, OSD Support: Science Engineering and Technical Advisor (SETA) appointment, March 2006 – November 2012.
- Staff Analyst (III), Standards, Developmental Test and Evaluation, Contract Technical Support to the Deputy Director, Cyber and Information Systems, DASD (DT&E), ASD(R&E) OUSD(AT&L)
- Software Tester, Application Developer, Total Force Data Warehouse and USMC TFSMS Server, MARCORSYSCOM

Prepared by: M. Elizabeth Fraser, 703-717-8010; 703-590-0469

[Elizabeth.Fraser@lycos.com](mailto:Elizabeth.Fraser@lycos.com)  
[mfraser@masonlive.gmu.edu](mailto:mfraser@masonlive.gmu.edu)

#### INSTITUTE FOR LAW AND JUSTICE

- Senior Writer for Technology, LAN Systems Administrator, Events/ LAN management for DOJ Support, Contractor/ Federally Funded Research Corporation, Institute for Law and Justice (ILJ), September 1992- February 2006
  - Computer-aided dispatch, surveillance technology, DNA evidence, and public acceptance of less-than-lethal technology
  - Website Design and maintenance, 5 websites, security policies and TCOM planning
  - Edited research publications, National Institute of Justice, and on non-lethal weapons and DNA evidence; prepared draft Annual Report to Congress, Bureau of Justice Assistance

#### GEORGE MASON UNIVERSITY, Peer Mentor

- Introductory Java Lab; Computer Graphics Lab, 2002-2003,
- Interdisciplinary Writing Program, Spring 2006

#### **EDUCATION**

- 2014 – M.S. Telecommunications, GMU Volgenau School of Engineering
- 2007 – B.S. Information Technology, *magna cum laude*, GMU Volgenau School of Engineering; Minor in Chemistry, (> 20 semester hours upper division studies)
- 1986 – A.A. Computer Science, University of Maryland, European Division (Berlin)

#### **TECHNICAL PROFICIENCY**

- Intermediate Defense Acquisition courses; Testing in Joint Environments, M&S for Test and Evaluation, and other T&E topics, Defense Acquisition University
- CompTia Network+ Training, GMU
- Industry: ASTQB Certification – Fundamentals (Software Testing)
- Industry: CTEP, Certified Test and Evaluation Professional, ITEA
- Graduate advanced study in Cyber Security (GMU, MS Telecommunications)
- Microsoft, Web/IP-based products for Services architecture, and Oracle Enterprise applications
- HP Quality Center / QuickTest Pro for regression testing
- Oracle Customer Support (9i, 10g, 11i DB's), PL SQL Fundamentals
- XML, Windows XP, 7, Desktop support, NT 3.0/4.0, SAS Test Procedures (PROC COMPARE)

#### **CLEARANCE** Security Clearance: Secret; **U.S. CITIZEN**

#### **Institute for Law and Justice**

- Group collaboration technologies, small LAN support, and application-user training, Federal
- Websites graphical content for Justice Programs (including maps and graphics, surveillance)

#### **Earlier Occupations**

- Byrd Press (1990-1992) – Database maintenance (Biochemistry, National Oceanographic)
- National Research Council (NRC, 1989-1990) – Senior Project Assistant U.S. Army, Berlin

#### **Professional Memberships:**

- Armed Forces Communications and Electronics Association (AFCEA), Awarded 2 scholarships
- Association for Computing Machinery (ACM)
- International Test and Evaluation Association (ITEA)

**Languages:** German (fluent); Spanish and French (intermediate)

**References:** (*Government, Corporate and personal, available on request*)

Prepared by: M. Elizabeth Fraser, 703-717-8010; 703-590-0469

[Elizabeth.Fraser@lycos.com](mailto:Elizabeth.Fraser@lycos.com)  
[mfraser@masonlive.gmu.edu](mailto:mfraser@masonlive.gmu.edu)