

Summary	Leader, Computer Scientist, and Software Engineer with 25+ years of experience solving problems by designing and building quality software in companies and teams of all sizes and academic research roles <ul style="list-style-type: none">- History of improving team productivity and efficiency by orders of magnitude- Strives to develop keen insight to find true, simple solutions to complicated, real world problems- 22+ years providing technical team leadership- 21 years Java development experience as primary language- 17+ years providing university computer science education- 9+ years managing engineering employees
Experience	Software Engineering Manger III, BAE Systems , ES –NH, MA: 09/2004 - present <ul style="list-style-type: none"><i>Software Development Environment Lead - Digital Transformation, DevSecOps, Agile, Metrics, Training</i>- Led creation and delivery of 26 live and 2 asynchronous training modules by 24 authors across several sites and time zones<i>A leader of ES Sector Engineering Excellence, Governance, and Process of 5500+ engineer organization</i>- Supported AS9100D audits achieving PEAR scores of 4-5 through 50+ activities- Coordinated Corrective Action Review Board. Increased available analysis time 233%. Reduced manually generated materials 63%. Reduced quarterly meeting time 50%. Led 250+ improvement tasks to completion.<i>Software Manager / Architect - Reported to Software Director of 160 engineer organization</i>- Direct technical leadership and functional management of 25 SW engineers across multiple sites<i>Principal Software Investigator: IRAD – Defining EW SW architecture of the future</i>- Illustrated paradigm for flexible deployment and concurrency while eliminating typical multi-threading issues<i>Software Lead: DARPA Cognitive EW – Hands on lead for multi-discipline engineering team</i>- Developed integrated Earned Value Management and Jira process reducing metric reporting to 10 minutes/week<i>Technical Lead: Map Display – hands on lead and architect in program of 65 SW Engineers</i>- Upon joining saved \$2 million estimated development costs and recovered an existing 2 month schedule slip- Recaptured 50% of primary mission equipment screen real estate from competitor- Reduced defect resolution and regression testing overhead of feature rich product from 1 week to 4 hours- Led addition of 30 features, requirements through integration and test, on schedule and within budget<i>Productizing Lead: Tracking and Fusion reporting to Business Area Director of 30 engineer organization</i>- Aligned source control and build to support maturation of research capabilities and releases to multiple customers- Inserted automated testing, coverage, static analysis, run time performance, and dependency metrics- Reduced average defect identification time from 4 weeks to 1 day<i>Capability Lead: UAV Auto Routing High-Speed Emergency Replanner in program of 25 engineers</i>- Increased average code review effectiveness from 1 to 10 major defects found across all program projects<i>Chief SW Architect: System of Services Preparation and Planning Fires and Effects Planner</i>- Customer appointed role leading 25 engineers from 2 companies on East and West coasts- Implemented deployment reversal of 300K line code base in 6 month spiral with no cost or schedule impact Adjunct Instructor, Worcester Polytechnic Institute (WPI), CS Department - Worcester, MA: 05/2004 - present <ul style="list-style-type: none">Courses: CS 525W Web Ware, CS 3043 Social Implications Of Information Processing. Research Scientist / Engineer, Bioengineering Institute (BEI), WPI: 09/2002 - 08/2004 <ul style="list-style-type: none">Cultivated business opportunities for novel data model and user interface technologies, Provisional Patent awarded. Research Assistant, Center For Research In Exploratory Data And Information Analysis, WPI: 09/2002 - 12/2002
Awards sample:	Geo. I. Alden Fellow, BEI, WPI: 02/2002 - 09/2002 – Authored Sheriff’s Office technology plan, data model, GUIs
<i>-BAE Impact: Interviews</i>	Design Engineer / Performance Analyst, EMC Corporation - Hopkinton, MA: 06/1998 - 10/2001 <ul style="list-style-type: none"><i>Performance Analyst: Characterized and optimized Backup Restore Solution</i>- Realized 20 fold team productivity increase initiating and leading continuous improvement effort- Provided performance white papers, inference engine expert system, and support to sales and field engineers
<i>-BAE Impact: Ingenuity, flawless execution in face of pandemic challenges</i>	Software Engineer, Scope Communications - Marlborough, MA: 1997 - 1998 - Created intelligent GUI widgets
<i>-BAE Impact: Tireless execution through unanticipated issues</i>	Software Consultant, 3Com - Marlborough, MA: Summer 1996 - Implemented a manufacturing quality database.
<i>-BAE Chairman’s: Bronze, Silver nomination</i>	
<i>-BAE Impact: Alternative Display Solution</i>	
<i>-BAE Impact: 20% Functionality Delivered Ahead of Schedule</i>	
<i>-BAE Impact: Great Place to Work Diversity & Inclusion</i>	
Skills	Technical: Architecture, Design, Implementation, Testing, Integration, Product Size Estimation, Schedule Planning, Requirement Derivation, Algorithm Tools: Java, Akka, JSF, JSP, JavaScript, XML, X/HTML, *NIX, BSD, Mac OS X, Windows, Jenkins, Eclipse, Git, ClearCase, Weka , Emacs , Apache [Web Server Tomcat TomEE Shiro Log4j], Primefaces, CesiumJS, Google Earth Plugin, Coverity, Fortify, Jira, Collaborator, MS Office, Doxygen; <i>Previous Experience In:</i> C/C++, Prolog, Scheme/LISP, Rational Rose, Subversion, Test Track Pro, LaTeX People: Recruiting, Behavioral/Technical Interviews, Performance Leadership/Management, Mentorship, Career Development, Delegation Process: Continuous Improvement, CMMI V2.0, AS9100D, AS9145, Technical Product Review, Meeting Facilitation
Education	PhD in Computer Science , Worcester Polytechnic Institute (WPI) - Worcester, MA - In Progress Master of Science in Computer Science , WPI - 2004 Thesis: Time Sequence Association Rules Bachelor of Science in Computer Science , WPI - 1998 with High Distinction Thesis : Machine Vision Billiards
Publication	Mining Expressive Temporal Associations from Complex Data , Machine Learning and Data Mining in Pattern Recognition: 4th International Conference, MLDM 2005, Leipzig, Germany, July 9-11, 2005. Proceedings.