

NICHOLAS S. SUTERA

942 Main Street
Reading, MA 01867
(781) 640-6477
nicksutera@gmail.com

EXPERIENCE

ASSURANCE TECHNOLOGY CORPORATION, Carlisle, MA

- Senior Software Engineer (October 2011 - Present)

Worked on a small team to successfully design, implement, test, and integrate a pre-launch test and analysis system for a space-based sensor suite including generating several design, test, and maintenance documents.

TEXTRON DEFENSE SYSTEMS, Wilmington, MA

- Associate Systems Analyst (January 2009 - October 2011)
- Co-Op Engineer (January 2007 - December 2008)
- Co-Op Engineer (January 2005 - August 2005)

Worked to port embedded C code for an anti-vehicle sublet to a new compiler system for better speed and memory optimization. Assisted with the performance analysis of an embedded target detection algorithm. Participated in a highly successful false alarm mitigation focus team. Worked to test several components of a ground-based anti-vehicle system prior to a successful customer demonstration.

Assisted in the testing of an advanced computer simulation, modeling physical dynamics and electrical systems of an anti-vehicle sublet. Wrote scripts to run multiple simultaneous simulations. Assisted debugging a target detection algorithm. Wrote test plans and procedures, assisted with and directed the testing of a military surveillance system in the laboratory and in the field, documented test results, analyzed test data, wrote test reports, performed hardware and software trouble-shooting activities in the laboratory and in the field, and assisted in implementing corrective measures.

AMERICAN POWER CONVERSION, North Billerica, MA

- Co-Op Engineer (January 2006 - June 2006)

Assisted in the initial feasibility and design of a high frequency, DSP controlled, uninterruptible power supply. Analyzed system costs based on topology, power output, and other factors. Presented feasibility and design results to management for project approval.

AVIDYNE CORPORATION, Lincoln, MA

- Co-Op Engineer (November 2002 - June 2003)

Assisted in the final testing of a computer-based aircraft navigation system certified by the FAA, fabricated test and production cables, tested and certified newly assembled products, and repaired returned products from customers.

EDUCATION

NORTHEASTERN UNIVERSITY, Boston, MA

Post-Graduate Work, Computer Engineering

- Courses: High Level Design of Hardware/Software Systems (SpecC), Computer Architecture, Combinatorial Optimization, Introduction to Computer Engineering (Algorithm Design and Analysis using C++), Digital Communications, Applied Probability

and Stochastic Processes

NORTHEASTERN UNIVERSITY, Boston, MA

Bachelor of Science, Electrical Engineering, *Magna Cum Laude* May 2008

Minor: Computer Engineering

- GPA: 3.641
- Honors: Graduated Magna Cum Laude, Dean's List, Excellence Scholarship
- Courses: Optimization Methods (C++); Computer Architecture; Communications Systems; Computer Vision (MATLAB); Algorithms and Data Structures (C++); VLSI Design (Verilog); Linear Circuits; Electronics; Digital Logic Design; Engineering Design (AutoCAD), Engineering Problem Solving and Computation (C++ and MATLAB)
- Activities: Member of IEEE, Member of Wireless Club

MINUTEMAN REGIONAL HIGH SCHOOL, Lexington, MA

June 2003

- GPA: 3.78
- Honors: National Honor Society, Honor Roll, Pro-Tech Advanced Placement Program, Graduated 4th in class
- Courses: Electronics Program, Honors Curriculum, Co-Op at Avidyne Corporation, Analog and Digital Circuit Theory, Calculus I, Pre-Calculus, Chemistry I and II, Physics I and II
- Activities: Cross Country Running Team, Lighting and Sound Manager for the Drama Club

SKILLS

- Software: C/C++, Java, MATLAB, Perl, Bash, SQL
- Computer Applications: Linux, Windows, GNU Build System, Visual Studio, NetBeans, MATLAB, AutoCAD

INTERESTS

- Computers: Constructing and managing home servers running various operating systems including Linux and Windows.
- Electronics: Designing and constructing audio circuits including: mixers, preamplifiers, amplifiers, and filter circuits.
- Audio: Designing and building loudspeaker boxes for use with home stereo, bass guitar, sound reinforcement, and car audio systems.
- Music: Bass guitarist in local bands for over 25 years. Home audio recording (analog-tape and PC-based digital)

References will be furnished upon request.

Written using L^AT_EX