

Alexander John Stringer
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Objective:

To advance my career in electrical engineering in a full-time position involving the design, development and maintenance of analog/digital electronics, Navigation systems, or RF systems.

Education

	New Mexico Institute of Mining and Technology Socorro, NM
May 2014	BS in Electrical Engineering GPA: 3.87
	Northwest College Powell, WY
May 2009	AA in Political Science

Work History

June 2016 to Present	Electronics/Software Engineer Department of Defense – Department of the Air Force Oklahoma City, OK Responsible for the design and maintenance of software for the B-2 program. <ul style="list-style-type: none">• Designed and wrote code to expand functionality and fix bugs in an existing Java application based on user generated defect reports.• Utilized a GIT repository to integrated code into the Java application.• Worked directly with a SQL database. This included directly modifying the format and data fields in the database, as well as writing Java code that pulled and stored information in it.• Utilized software security analysis tools to prevent the introduction of code flaws that could be exploited.• Developed and implemented test procedures to verify code functionality.• Worked directly with users to identify the causes of critical failures in the application.
September 2014 to May 2016	Electrical/Electronics Engineer Halliburton Energy Services – Production Solutions Duncan, OK Responsible for the design, testing, and modification of electronics boards used to control downhole tools. Oversee the design and testing of surface equipment used in data acquisition. <ul style="list-style-type: none">• Design electronics boards for use in extremely harsh environments.• Develop and test board firmware.• Currently have ownership of a major, high-profile project that is nearing completion. Was assigned ownership of this project near its inception, after only three months of employment.• Write documentation including assembly and operating manuals, test plans, and test reports.• Work closely with several cross-disciplinary groups.

January 2013 to January 2014

- Give frequent presentations both to the engineering team and to management.

Student Researcher

New Mexico Institute of Mining and Technology

Socorro, NM

Used audio/infra-sound signals to map lightning.

- Continued the work of a graduating master's student
- Performed regular field repairs to damaged audio and infra-sound microphones.
- Identified the type and time of lightning strikes using PQL II and Matlab.

June 2010 to May 2014

Student Engineer

Energetic Materials Research and Testing Center

Socorro, NM

Assisted with the synthesis and sensitivity testing of energetic materials for defense, transportation, and industrial projects.

- Worked with the instrumentation department to set up a network of pressure sensors throughout a three-story building for a high-profile test.
- Repaired and upgraded small-scale sensitivity testing equipment including a Henkin Critical Temperature Tester, a BAM-Friction Tester, and an ESD Tester.
- Wrote sections of the Safe Operating Procedures for several tests.

Exceeded job expectations and assumed additional responsibilities.

- Requested by name for projects by both customers and project engineers.
- Trusted to work independently on both small-scale laboratory tests and large-scale field tests.
- Placed in charge of training new student engineers on both field and laboratory procedures.

Software/Lab Skills

Software

- Microsoft Office: Word, Excel, Powerpoint
- Programming in C and Matlab
- Familiar with PADS, Solidworks, PQL II, Code Composer Studio, Code Warrior, Quartus, Verilog, Multisim, Ultiboard, Labview, PSpice
- Experience programming and using Microcontrollers

Laboratory

- Working knowledge of laboratory procedures
- Electrical analysis equipment; Logic Analyzer, Spectrum Analyzer, Oscilloscope, Function Generator
- Chemical analysis equipment; DSC, FTIR, UV-Vis, PSA
- Energetic materials sensitivity testing equipment; Modified Type-12 Impact Tester, BAM-Friction Tester, ESD Tester, Henkin Critical Temperature Tester

Honors/Awards/Achievements

- Passed the Fundamentals of Engineering exam
- Member of the Tau Beta Pi Engineering Honor Society
 - Treasurer of the New Mexico Gamma chapter for the 2012-2013 academic year
 - President of the New Mexico Gamma chapter for the 2013-2014 academic year
- Recipient of the competitive Macey Scholarship for the 2013-2014 academic year: awarded for excellence in academics, service and research.
- Served as part of a team that worked on a project for Microsoft FUSE Labs to design and build a universal communication system that allows for the fast, easy integration of microcontroller-based systems. This project was successfully completed and tested by the Microsoft project sponsor on April 24th 2014, and Microsoft did an initial press release for the project on May 22nd 2014.
- New Mexico Tech Scholar

- New Mexico Institute of Mining and Technology Honor Role for the years of 2010-2014
- New Mexico Tech Robotics Club
 - Co-Founder and President for the 2013-2014 academic year
- Member of the Phi Theta Kappa Honor Society
 - Vice-President for the 2008-2009 academic year
- Member of the Northwest College Speech and Debate team
 - Speech Captain for the 2008-2009 academic year
- Secretary of the Northwest College Student Government Association for the 2008-2009 academic year