NATE ALAN MOEHRING

Certified LabVIEW Architect

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PROFILE	Passionate about software engineering in LabVIEW. 9 years of experience developing Command and Control Ground Software. 11 years of experience in the aerospace industry. Effective team leader, teacher, and mentor with a genuine concern for people.	
EXPERIENCE		
Summer 2005-Present	 Orbital Sciences Corporation, Gilbert, AZ Principal Software Engineer Contributed to the testing and on-orbit checkout of Landsat 8, GeoEye-1, and C/NOFS satellites. Responsibilities included leading a team in the development of Command and Control GSW feature development for I&T and Mission Operations, spacecraft and simulator test scripts, and database engineer for the Command and Telemetry database. Developing RF functional tests and TVAC chamber software enhancements for Iridium NEXT communication satellites. Contributing to design decisions for ICESat-2 I&T ground software, database, and test scripts. Mentoring new engineers on the GSW team. Provided Linux support for Integration & Test of the OCO-2 science satellite. 	
Spring 2004-Summer 2005	 StarVision Technologies, College Station, TX Software Engineer, Charter Member Software and hardware development of a robotic mobile p and demonstration of an experimental navigation sensor Autonomous Aerial Refueling of Unmanned Aerial Ver Software development of a handheld commercial star iden star tracker technology. Ported novel surface mapping algorithms written in Matla embedded applications. 	system designed for nicles. ntification product based on
Fall 2003	Spacecraft Technology Center , College Station, TX Software Engineer Software development of a high resolution camera system International Space Station. Prototyped all software sub including the EXPRESS Rack Interface Controller, cam crew interface panel, and controller. Created an API to protocol and payload functionality to simplify developm Equipment software.	osystems and interfaces lera, digital data recorder, abstract the communication
Summer 2000, 2003	 National Instruments (NI), Austin, TX Internship – Research and Development Prototyped hardware and software to integrate a DSP into an existing NI FPGA product to add floating point processing capabilities. Developed a prototype cross compiler from G to Lego Assembly to natively support Lego Mindstorm programming from NI LabVIEW. This has since developed into the software package included in Lego's Mindstorm NXT robotics kit. Developed an automated testing system used in the production testing of PXI systems and to verify cross-product compatibility between NI's PXI products. 	
Summer 2001	Advanced Energy Industries, Fort Collins, CO	

	Internship – Research and Development Developed the hardware and software for a distributed I/O device used in the automated testing of semiconductor manufacturing power supplies. This device provides Modbus/TCP control of analog I/O, digital I/O, relays, and digital potentiometers.	
Spring 2001-Fall 2002	Enable Communications, Bryan, TX Engineer, Co-Founder	
	Startup technology company focused on consumer telephony and VOIP peripherals. Awarded support from the Bryan/College Station Economic Development Center's technology incubator.	
Fall 1999-Spring 2003	 Department of Engineering Technology and Industrial Distribution, Texas A&M Graduate Assistant Researcher Development of a low-cost semiconductor tester designed to run in parallel with large ATEs to improve semiconductor-testing efficiency. Development of an experimental sobriety tester using an HP iPAQ. 	
	Graduate Assistant Teacher – Introduction to Electronics Technology Instructor for an introductory electronics course teaching software tools (LabVIEW, Altera Max+Plus II, Cadence OrCAD) and fundamental electronics.	
	 Student Technician II – Automation Laboratory Developed an electrical arc emulator used in the development of intelligent power supplies for semiconductor manufacturing. Developed the firmware for a commercial closed-loop pressure control device. 	
LANGUAGES	LabVIEW, PERL, C++, Java, Visual Basic, Motorola assembly, ASP, HTML, JavaScript, SQL, XML	
EDUCATION Fall 2003	Texas A&M University , College Station, TX Master of Science in Management Information Systems, Enterprise Development GPA Overall: 4.0	
Fall 2001	Bachelor of Science in Electronics Engineering TechnologyGPA Overall: 3.442GPA in Major: 3.875	
HONORS Fall 2013 Fall 2011 Spring 2011 Summer 2009 Spring 2007 Fall 2005 Fall 2005 Fall 2005 Fall 2001 Spring 1998-Spring 1999 Spring 1997	SPOT Award, Orbital Sciences – Responsive support for Landsat-8 data analysis Special Award, Orbital Sciences – Technical achievement for Landsat-8 hotbench Red Box Reward, Orbital Sciences – Exceptional teamwork and innovation Star Award, General Dynamics AIS Certificate of Excellence, General Dynamics AIS Silver Eagle Award, General Dynamics C4S Department of the Year, Ground Software, General Dynamics C4S - SASS Outstanding Senior Award, Electronics Engineering Technology Texas A&M University Dwight Look College of Engineering Distinguished Student Award Valedictorian, Bandera High School	
ORGANIZATIONS Spring 2013-Present Spring 2010-Present Fall 2004, 2008-2010	Sonesta Estates HOA Vice President Advanced Phoenix LabVIEW User Group (PLUG+), Coordinator First Lego League – Robotics competition, Judge and Mentor	

Fall 2001-Fall 2003 Fall 1999-Fall 2001

First Lego League – Robotics competition, Judge and Mentor Aggie Lutherans – Campus ministry, Vice President 2002 Tau Alpha Pi – Engineering Technology National Honor Society, President 2000 Young Adult Resource Persons (YARPs) – Youth ministry, Coordinator 2003-2005

Fall 1997-Spring 2005