

# Jennifer Megan Alexander

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<b>Objective</b>	Seeking a position of electrical engineer and to work with a progressive and forward thinking company	
<b>Education</b>	<b>Georgia Institute of Technology, Atlanta, GA</b> Bachelor of Science in Electrical Engineering <ul style="list-style-type: none"><li>• Current GPA – 3.14</li></ul> University of West Georgia, Carrollton, GA <ul style="list-style-type: none"><li>• Transfer GPA – 3.76</li></ul>	<b>Estimated graduate date May 2011</b>
<b>Skills</b>	<b>Controls</b> <ul style="list-style-type: none"><li>• Stability, Root Locus, Nyquist rate, Bode Design</li><li>• Discrete Systems</li></ul> <b>Power Systems</b> <ul style="list-style-type: none"><li>• Three Phase Systems, Power Systems, Transformers</li></ul> <b>Digital Signal Processing</b> <ul style="list-style-type: none"><li>• LTI/Causal Systems, FIR/IIR/LP/HP/BP/BS Filters</li><li>• Fourier Transform, Z-Transform, Convolution, Nyquist rate</li><li>• Random Processes, Stationary Processes, Auto-correlation, Power Spectral Density</li></ul> <b>Software</b> <ul style="list-style-type: none"><li>• Microsoft Visual Studio, MATLAB, NI Multisim, NI LabVIEW, Cadence OrCAD</li><li>• Altera Quartus II, Mathcad, Windmill, Light Table</li></ul> <b>Programming</b> <ul style="list-style-type: none"><li>• C/C++, MATLAB, VHDL</li></ul> <b>Circuitry</b> <ul style="list-style-type: none"><li>• Node and mesh equations, Thevenin/Norton equivalents, Superposition, Laplace Transforms</li></ul> <b>Instrumentation</b> <ul style="list-style-type: none"><li>• Oscilloscope, Multimeter, Function Generator, Logic Analyzer</li><li>• Three phase power quality analyzers</li></ul> <b>Communication</b> <ul style="list-style-type: none"><li>• Presentations, Technical Reports, Meetings, Emails</li></ul> <b>Leadership</b> <ul style="list-style-type: none"><li>• Coached and Managed Intramural Softball and Flag Football teams</li><li>• Teaching Assistant, Workshop Leader</li></ul>	
<b>Experience</b>	<b>Central Georgia EMC, Jackson, GA</b> Engineering Intern <ul style="list-style-type: none"><li>• Performed ark flash studies</li><li>• Conducted coordination studies using Light Table</li><li>• Drew one line diagrams of substations</li><li>• Programmed and installed electronic recloser controls, switched capacitor controls, and regulator controls</li><li>• Installed and troubleshot communication systems</li><li>• Terminated fiber optic cable</li></ul>	<b>May 2008 – August 2010</b> <b>(3 Summers)</b>
	<b>University of West Georgia</b> Chemistry Lab Teacher Assistant <ul style="list-style-type: none"><li>• Duties: Trained to prepare/run General Chemistry labs</li></ul>	<b>January 2008 - May 2008</b> <b>(1 Semester)</b>
	<b>University of West Georgia</b> Chemistry Workshop Leader <ul style="list-style-type: none"><li>• Duties: Trained to prepare/run workshops for General Chemistry students</li></ul>	<b>August 2007 – May 2008</b> <b>(2 Semesters)</b>
	<b>University of West Georgia</b> Research Assistant <ul style="list-style-type: none"><li>• Duties: Researched nanochrySTALLINE titanium solar cells</li></ul>	<b>October 2006 - December 2007</b> <b>(2 Semesters)</b>
	<b>Redland Farm, Zebulon, GA</b> Farm Manager <ul style="list-style-type: none"><li>• Operate farm equipment with attachments (tractors, trackhoes, trucks) apply chemicals for brush/weed control</li><li>• General mechanical maintenance including engine overhaul, transmission rebuilds, welding, hydraulic repair</li><li>• Plan livestock breeding program and manage livestock marketing</li></ul>	<b>2001 - Present</b>