

Alexander Grubl

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Education	Georgia Institute of Technology, Atlanta, GA Candidate for Bachelor of Science in Computer Engineering	09/2004 – 12/2009
Skills	<p>Digital Signal Processing</p> <ul style="list-style-type: none"> ▪ LTI/BIBO/Causal Systems, FIR/IIR/LP/HP/BP/BS/Chebyshev filters ▪ Fourier Transform, Z-Transform, Convolution, Nyquist rate ▪ Random Processes, Stationary Processes, Auto-correlation <p>Software</p> <ul style="list-style-type: none"> ▪ MATLAB, Microsoft Visual Studio, VMware, MySQL ▪ Cadence OrCad, Cadence Virtuoso, NI Multisim, Mathcad, Simulink <p>Programming</p> <ul style="list-style-type: none"> ▪ C / C++, MATLAB, Python, Java, Assembly(MIPS), VHDL <p>Hardware</p> <ul style="list-style-type: none"> ▪ Pipelined MIPS datapath, FLEX 10K FPGAs ▪ Built a working Analog to Digital Converter ▪ Soldering <p>Operating Systems</p> <ul style="list-style-type: none"> ▪ Windows, Linux (Ubuntu, Red Hat) <p>Statistics</p> <ul style="list-style-type: none"> ▪ Gaussian/Poisson/Binomial distributions, Central Limit Theorem <p>Microelectronic devices</p> <ul style="list-style-type: none"> ▪ BJTs, MOSFETs, P-N Diodes, IGBTs ▪ Minority Carriers, Mobility Characteristics, Breakdown Voltage <p>Controls</p> <ul style="list-style-type: none"> ▪ P-I-D control, Stability, Root Locus <p>Circuitry</p> <ul style="list-style-type: none"> ▪ Node and mesh equations, Thevenin/Norton equivalents, Superposition ▪ Laplace Transforms <p>Instrumentation</p> <ul style="list-style-type: none"> ▪ Oscilloscope, Multimeter, Function Generator <p>Communication</p> <ul style="list-style-type: none"> ▪ Presentations, Conferencing, Technical Reports, Project Proposals, Meetings ▪ Customer Service ▪ Fraternity rush events <p>Leadership</p> <ul style="list-style-type: none"> ▪ Head of fraternity Judicial committee ▪ Head of fraternity Financial review committee 	
Experience	<p>Nokia, Alpharetta, GA <i>QA Co-op</i></p> <ul style="list-style-type: none"> ▪ Created and ran software functionality/stress testing ▪ Updated device firmware ▪ Organized the test lab ▪ Maintained device rosters ▪ Reported daily test results using Excel ▪ Ended with the delivery of an office wide, self-prepared presentation on the VMware hardware virtualization software package and NoMachine's NX Windows client for remote desktop access into a Linux environment <p>D.R. Horton Construction, Orlando, FL</p> <ul style="list-style-type: none"> ▪ Assisted site manager ▪ Installed basic home furniture (doors, locks, fans) ▪ Prepared homes for final inspection ▪ Aided customer home inspection and made on-site repairs 	<p>08/2005 - 05/2008 (5 Semesters)</p> <p>05/2003 – 08/2004 (2 Summers)</p>
Research	<p>Georgia Institute of Technology <i>Research Assistant</i></p> <ul style="list-style-type: none"> ▪ Research project on Exa-scale computing program development ▪ Worked with one other student to develop a FLOPs bookkeeping program using MATLAB ▪ Weekly meetings were held to monitor progress and verify-independent work 	1/2009 – 4/2009 (1 Semester)