

(Tripp) Milton Arthur Lamb III [May 2022]

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Education	<p>UAHuntsville (2007-2011) Huntsville, AL</p> <p>Bachelor's Degree in Chemistry, Cum Laude Minor in Math</p> <p>GPA: 3.6/4.0</p> <p>Honors and Affiliations: Presidential Scholarship, Jane Knight Lowe Memorial Scholarship, Co-op of the Year for Department of Science (2010-2011 term), ACS Award for Analytical Chemistry 2011</p>
Expertise	<p>Operating Systems: Windows, Linux, Mac OS</p> <p>Proficient Languages: Fortran, JavaScript/NodeJS , C#</p> <p>Additional Languages: Python, C++, Java, MATLAB, Bash (Professionally Used)</p> <p>Programming Environments: Visual Studio, Atom, Vim</p> <p>Additional Technologies: HTML5, CSS3, Git, XML, Electron, SQL, Unreal Engine</p>
Experience	<p>Delta Research Inc. (Nov 2013 - Present) Huntsville, AL</p> <p>Weapons Systems Analyst / Senior Software Developer</p> <ul style="list-style-type: none">■ Software architect and manager of several software projects for data analysis and model simulation<ul style="list-style-type: none">○ Missile defense, missile, radar, and debris safety simulations○ Various tools for post-processing of data from the above simulations○ Versioning management and testing software for the above simulations○ Multiple user interfaces for the above software○ Scripts for miscellaneous analysis and data management■ Direct analysis when designing new analysis software, and additionally as needed■ Design company-wide software guidelines■ Lead the company-wide restructure to have a core software development team, to support the software needs of all engineers and analysts■ Determine which software development would benefit the company with minimal input from managers by working directly with engineers to determine bottlenecks and possible solutions■ Creation and presentation of documentation to explain capability and processes of developed software■ In-depth numerical method algorithm development involving (but not limited to) Runge-Kutta, Kalman Filters, Random Variables, Kernel Density Estimation, Minimization Problems, Data Structures, and Soft-Body Dynamics.

	<p>HudsonAlpha (Feb 2013 - Oct 2013) Huntsville, AL</p> <p>Software Developer</p> <ul style="list-style-type: none"> ■ Maintained and updated in-house applications including: the main pipeline, the web interface that manages the main project, and web applications that handle form data ■ Maintained constantly live software that can only be fully tested once in production ■ Maintained and edited live data in MySQL database ■ Programed in JavaScript, Bash, Perl, SQL, Python, and Java ■ Used MVC and REST frameworks, HTML5, CSS3, various JS libraries, Git (GitHub), Vim, testing frameworks, and MySQL. ■ JavaScript specialist for the Myers' Lab computational group ■ Fielded questions from co-workers in the lab who use the tools we created on a daily basis <p>Center for Advanced Public Safety (Mar 2012 - Feb 2013) Huntsville, AL</p> <p>Junior Software Developer</p> <ul style="list-style-type: none"> ■ Website development in VB and C# using Visual Studio 2010, MVC3, SQL Server, and JavaScript ■ Created website pages using HTML, CSS, jQuery, and external styling in addition to the tools used for website design ■ Worked on multiple public service websites for the State of Alabama ■ Performed program testing, reported bugs in code, and resolved bugs <p>AMRDEC (Sep 2007 - Dec 2011) Redstone Arsenal, AL</p> <p>Co-op Computer Scientist / Propellant Analyst</p> <ul style="list-style-type: none"> ■ Model and terrain creation (Blender, 3DS Max, OSG) for the Avenger Trainer (ADA-Trainer) ■ Programmed on various projects (including the Avenger Trainer) in C++ and C# ■ Developed and maintained an application for in-house file conversion ■ Wrote papers and documents detailing research for future reference ■ Performed chemical and mechanical testing on propellant samples ■ Handled, transported, and inventoried explosives (1.1 and 1.3)
<p>Programming Side Projects</p>	<ul style="list-style-type: none"> ■ https://github.com/trippalamb ■ https://www.npmjs.com/~triplamb
<p>Certifications</p>	<ul style="list-style-type: none"> ■ Secret Clearance