

THOMAS ALEXANDER

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OBJECTIVE

Seeking work and educational experience in a computer science/physics research position primarily with a focus on Quantum Computing. I am currently entering my fourth year in a physics and computer science double major at Mount Allison University. A driven individual, I am quick to learn new concepts and skills. My ideal placement would be working with experienced professionals to develop and learn new skills. I am interested in Graduate studies and research opportunities in the field of Quantum Computing.

EDUCATION

Double Major Physics and Computer Science — GPA 3.60

Mount Allison University, Sackville, NB

September 2010 - Current

CAREER HISTORY

Summer Research, Mount Allison University

Current

- Design of Turbidostat hardware and circuitry.
- Turbidostat software design.
- Documentation.

Software Development Intern, G2 Research

Summer 2012

- Development of cellular tracking and analysis software.
- Setup OpenStreetMaps rendering server.
- Product and software research.

IT Manager, The Argosy Newspaper

2011-2012

- Setup and maintenance of Drupal news site
- Cloud server setup on NGINX/PHP-FPM stack.
- Serviced companies equipment and network.

MSDS Database Creation, Maritime Beauty

Summer 2011

- Setup a Material Safety Data Sheet database for Maritime Beauty on proprietary software.
- Networked with outside companies to develop relationships and acquire information.

Production Manager, Skratz That

2009-2010

- Production manager of an entrepreneurial startup that was part of the Junior Achievement program. Responsible for production of the company's product and production implementation. Skratz That won Company of the Year in all of Atlantic Canada for 2010.

SKILLS

Physics: Quantum Mechanics, Quantum Computing, Electrodynamics, Analog Electronics

Hardware: Arduino, GPU computing, Cloud computing, Analog Electronics

Programming: Java, Scala/Akka, HTML5/CSS, JavaScript/Node.js, Mathematica, L^AT_EX, Python/Django, SQL, C, Cuda C, C#, git, svn, MongoDB

Programming Concepts: Algorithms Analysis, Object Oriented Programming, Unit Testing, Quantum Computing, Computer Architecture, Functional Programming, Data Structures, Databases, Networking, Neural Networking, Basic AI

Operating Systems: Linux, Windows, Mac OSX

LEADERSHIP ACTIVITIES

Tutor, Physics and Computer Science

2010 - Current

AWARDS AND HONORS

4th Place, The 2012 Northeast North America Regional ACM Contest Preliminary *2012*

3rd Place, Robot's East Atlantic Championships *2010*

1st Place, Robot's East Atlantic Championships *2009*

1st Place, Robot's East Atlantic Championships *2008*