

# Timothy Oram

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Résumé

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## Education

Sep 2006 – Apr 2014 **B.Sc. Computer Science**, *Memorial University*, St. John's, NL.  
Part time studies from June 2007 – May 2008 and May 2010 – January 2012 while working full time with Statusfirm and Bluedrop Performance Learning.  
**Technologies:** Java, C/C++, GIT, Latex, AVR micro controllers, electronics

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## Work Experience

May 2010 – Jan 2012 **Web Application Developer**, *Bluedrop Performance Learning*, St. John's, NL.  
Research and development of the CoursePark eLearning platform where my primary responsibility was architecting the application framework and creating developer tools.

**Achievements:**

- Responsible for converting the project to use unit tests and test driven development;
- With help from another team member, switched the project from using Subversion to Git and Github;
- Trained a team of ten in the use of Git and Github, including development workflows.

**Technologies:** PHP, JavaScript, HTML, CSS, PostgreSQL, Linux, Amazon AWS, GIT, jQuery

Jun 2007 – May 2008 **Web Developer**, *Statusfirm*, St. John's, NL.

Development of a content management system used on several video news websites.

**Achievements:**

- Integration of a video portal with live score updates using AJAX and in association with Yahoo Sports;
- Parsing of technical documents using a rule based system to extract relevant information.

**Technologies:** PHP, JavaScript, HTML, CSS, Adobe Flash, AJAX, MySQL, CVS, Subversion

Sep 2003 – Aug 2006 **Professional Audio Technician**, *Self Employed*, Glovertown, NL.

Setup and operation of professional audio equipment and lighting for concerts, dances and other events.

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## Other Experience

Jan 2013 – Jul 2014 **CTO – Software**, *Eastern Edge Robotics*, Memorial University, St. John's, NL.

**Responsibilities:**

- Along with my team, the development of control software for a underwater remotely operated vehicle;
- Delegation of tasks to other members of the software team;
- Communicate software progress to the project and division leads;
- With other team members, the writing of a technical report on the software and electronic systems;

**Technologies:** Visual Studio.net, C#, serial/TTL communication, micro controllers

Sep 2012 – Apr 2014 **President**, *MUN Computer Science Society*, Memorial University, St. John's, NL.

**Responsibilities:**

- Management of the day to day operations;
- Liaison with the Newfoundland Department of Innovation, Business and Rural Development;
- Intermediary between the Department of Computer Science and undergraduates;
- Computer science representative on the Faculty of Science Undergraduate Society.

41 Moss Heather Drive – St. John's A1B 4R9 – Canada

☎ +1 (709) 693 9113 • 📞 +1 (709) 753 1973 • ✉ mitmaro@gmail.com

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## Volunteer Work

- Jul 2014 **Assistant**, *World Oceans Day*, St. John's, NL.  
Teach and interact with youth as they test pilot a mini remotely operated vehicle.
- Sep 2013 – Current **Organizer**, *Youth Engagement*, St. John's, NL.  
Organized initiatives that engage youth in computer science and programming.
- Jan 2013 – Current **Organizer/Developer**, *ABA Project*, St. John's, NL.  
Organized a team to design and develop an online software system that helps in matching parents of kids with autism to therapists.
- Nov 2013 **Competition Judge**, *Newfoundland First Lego Robotics Competition*, St. John's, NL.  
Judged autonomous Lego robots designed and built by youth.
- May 2013 **Competition Judge**, *St. John's Regional MATE Robotics Competition*, St. John's, NL.  
Judged underwater remotely operated vehicles designed and built by junior high and high school students.

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## Awards and Achievements

- Jul 2013 2nd place overall 2013 MATE International ROV Competition
- Sep 2013 Panelist on the Canadian Council of Chief Information Officers Executive Session
- Oct 2012 NL Web Developers guest lecturer - Intro to GIT
- Feb 2010 2nd place MUN Computer Science Singles Programming Competition
- Sep 2010 1st place MUN Computer Science Team Programming Competition
- Sep 2010 1st place MUN Computer Science Singles Programming Competition
- Sep 2009 1st place MUN Computer Science Team Programming Competition
- Oct 2008 2nd place ACM Preliminary Programming Competition
- Sep 2008 1st place MUN Computer Science Team Programming Competition

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## Selected Personal Projects

- 2013 **LED Light Controller.**  
Atmel AVR micro-controller based system that controlled the brightness of RGB LEDs.  
**Technologies:** AVR micro-controllers, C/C++, serial communication
- 2012 **Tamagotchi Clone.**  
A clone of the tamagotchi virtual pet popular at the turn of the millennium for iOS.  
**Technologies:** Objective-C, iOS, Xcode
- 2010 **Palm Pre Latitude PHP Link.**  
An application that sends GPS data from a Palm Pre to a PHP web server that in turn publishes location data to Google Latitude.  
**Technologies:** JavaScript, PHP, JSON, Curl
- 2009 **SVN Dump Editor.**  
Enables a user to make modifications to a subversion repository to remove sensitive data from a file/revision.  
**Technologies:** Python, Subversion, wxWidgets
- 2003 – 2007 **Disco Lights.**  
A program that analyzes the audio spectrum from a sound card and using beat detection flashes lights to the music.  
**Technologies:** Visual Studio, Visual Basic 6, digital signal processing, usb/serial communication

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## References

Available upon request

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