

# Edward A Robinson

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56 Windrush Rd, Kleinburg, Ontario, L0J 1C0

*“Dynamic and enthusiastic computer science specialist with demonstrated excellent problem solving and initiative as well as strong interpersonal skills. Successful in a broad range of research, employment, and volunteer open source computing projects.”*

## Employment

### **Citizen Lab, Programmer (Toronto Ontario)**

Summer 2008

Developed programs that are being used to detect internet censorship and at what level the censorship was occurring. This program was written in python using the GTK graphics toolkit and deployed to Windows and Linux computers.

### **Array Systems Computing Inc., Programmer (Toronto, Ontario)**

2005 - 2008

At Array I was able to contribute to a number of programs for the Advanced Deployable Day Night Simulation (ADDNS) project. This involved Windows and Linux development in a variety of languages including C, C++, Matlab. This included developing solutions with military scientists and helping obtain approval. I also recommended a new suite of development tools that the company adopted. I worked full time up till 2007, from then onward I have worked as a part time consultant for the company.

### Achievements Include:

- **Resolve** – This program involved testing a subjects ability to detect soldiers in both day and night time images, after applying different filters to the image. For this program I designed and implemented the program to create all the filtered images, as well as the program to do the actual experiment and report the results.
- **Aura** – This program focused on a subjects ability to estimate the distance of a night vision halo (light source). The simulation was written using Vega Prime, my primary responsibility was to load the experiment data into the Vega Prime code, and then export the results in a format understandable by the researchers.
- **FlightIG** - This solution used MultiGen-Paradigm's FlightIG software, that used multiple computers Linux to render the image. On this project I wrote many programs to facilitate the easy control of the Linux.
- **Aura 3 Shotgun** - This program was an extension to the Aura simulation. I was the lead developer for this project planning the development route and writing the Vega Prime code.
- **Interaspect** – This was a Matlab simulation designed to test a subjects ability to intercept another aircraft traveling in an arc. This project used Matlabs Virtual Reality Toolkit, I was the Lead programmer for this project, as well as working on the simulation I also worked on using a joystick as the interface to the simulation.

## **Airborne Trampoline, Coach (Woodbridge, Ontario)**

1999 - 2003

I am a National Coaching Certification Program Level two coach. At Airborne I coached the Airborne Provincial Team who competed across Ontario.

## **Education**

- B.Sc. in Computer Science, University of Toronto 2004 - Present  
Software Engineering Specialist, degree expected by June, 2009
- Academy for Gifted Children (P.A.C.E.) 1996 - 2003

## **Research**

### **OS161-VIS (Toronto, Ontario)**

2008 - 2009

This project was started by Angela Brown and then continued by Karen Reid at The University of Toronto. The goal of this project is to modify Harvard's OS161 teaching operating system to provide graphical representation of the memory management system used by the operating system as well as detect many of the common memory problems students encounter when writing their own memory replacement algorithms.

The software written for this project was written in C, Java, and Python and has been used to teach the introductory operating systems course at The University of Toronto. I have also demoed this software at university fairs.

## **Special Accomplishments**

### **Ubuntu Linux Member**

2005 - Present

Ubuntu is a community developed operating system that is perfect for laptops, desktops and servers. Ubuntu membership recognizes someone who has made a substantial contribution to the Ubuntu community.

Working on the Ubuntu project has allowed me to explore all aspects of the software development cycle including: supporting users, and planning and developing software.

### **Governor General's Award**

2003

This award was only given to one graduating student and reflected my overall strong performance in the school.

### **Technical Achievement Award**

2003

A special award for my leadership in technical support for the dramatic arts, mainly sound and lighting, throughout my academic career.

### **Citizenship Award**

2003

This award was presented for my contribution to the school community.

## **Outward Bound Leadership Course**

2001

Completed with distinction. Demonstrated resourcefulness and team skills on 3 week wilderness trip. Awarded high school credit with a 90% grade.

## **Other**

- Experienced with: C, C++, Java, Python, Matlab, ML, Prolog, SQL, Django, Vega Prime, GTK, Linux, Windows.
- NATO Secret Security Clearance granted by PWGSC/CIISD. (exp Sep 11, 2016)
- Canadian and British Citizen.
- In my free time, in addition to contributing to the open source community, I enjoy the outdoors and canoe trips.

## **References**

- Available upon request