Alan Daniels

647-297-2281

alan.daniels@utoronto.ca

Education

St. Andrew's College	**University of Toronto**
Top 10 Scholars (Grade 9-12)	Faculty of Engineering
Graduating Average: 96%	Engineering Science 2nd Year
Schulich Leader Nominee	Cumulative GPA: 3.42

Engineering Experience

ESC102 Praxis II: Designing a Writing Utensil for Individuals with Parkinson's Disease

- Developed a high-fidelity conceptual design and product pitch in a team of four.
- Completed extensive community analysis and research.
- Exercised development of product metrics.
- Performed vast amounts of prototyping and implemented testing protocol.
- Communicated concept through showcase presentation and Q&A.

AER201 Engineering Design: Building a Flashlight Testing Machine

- Worked with a team of three to build a complex machine.
- Performed extensive unassisted research, survey, and problem solving.
- Built strong group dynamics.
- Acquired much electromechanical, circuitry, and microprocessor experience.
- Practiced professional organizational techniques such as Gantt charts and CPM.

Extracurricular

Hacker Academy – Programming and technology club. Weekly discussions, programming competitions, the 2013 Microsoft Hackathon: Windows Phone 8 app development.

University of Toronto Aeronautics Team - Aircraft design and simulation. Airfoil design using XFOIL. Examining CAD and hand drawn designs. Large team design.

New College Residence Council – House representative; planned events and ensured satisfactory operation.

Volunteering

Gallanough Resource Centre – responsible for organizational matters, assisting patrons, running private computer lessons, and many other tasks. Assisted in multiple library programs, such as helping children assemble crafts and leading a book discussion group. Filled in for library technicians, checking material in and out. Deleted VCRs from the online catalogue, indicating a high degree of trust, as changes to the catalogue were permanent and there was no mechanism to prevent other material from being deleted. 190 hours volunteered here.

Programming Experience

Experienced with Java and C. Slightly experienced with C++, C# and MATLAB. Familiar with hardware description language Verilog. Acquainted with Ruby on Rails, Scala, Clojure, HTML5, JavaScript, and others.

Personal Skills

Dedicated. Passionate about making an impact on an associated organization, team, or person. Experienced with group dynamics and capable of leadership. Interested in technology. Quick and eager learner. Helpful. Enjoy tutoring. Amiable and thoughtful.