

# Alan Daniels

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## Education

**St. Andrew's College** (Sept 2008-May 2012)

Top 10 Scholars (Grade 9-12)

Graduating Average: 96%

Schulich Leader Nominee

**University of Toronto** (Sept 2012-Present)

Faculty of Engineering

Engineering Science 3<sup>rd</sup> Year: ECE Option

Cumulative GPA: 3.32

## Engineering Experience

### Engineering Design: Building a Flashlight Testing Machine

(Jan 2014-Apr 2014)

- Worked with a team of 3 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.

### UTEK: Vehicle Design for Extreme Conditions

(Jan 2014)

- Produced a design prototype and product pitch in a team of 4.

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

(Jan 2013-Apr 2013)

- Developed a high-fidelity conceptual design and product pitch in a team of 4.
- 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.

## Extracurricular

**Hacker Academy** – Programming and technology club. Engaged in weekly discussions, programming competitions, the 2013 Microsoft Hackathon. Executive for 2014-2015 year.

(Sept 2012-Present)

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

(Sept 2012-Jan 2014)

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

(Sept 2013-Present)

## Volunteering

### Gallanough Resource Centre

(May 2010-Sept 2010)

- Organized material, assisted patrons, ran private computer lessons.
- 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.
- Managed catalogue removal of VCRs.

## Programming Experience

- Created my website with Ruby on Rails: [alandaniels.herokuapp.com](http://alandaniels.herokuapp.com).
- Developed a game with Java.
- Worked with C, C#, and MATLAB.

(Apr 2014-Sept 2014)

(Apr 2014-May 2014)

(Sep 2012-Apr 2013)