

Alan Daniels

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EDUCATION

UNIVERSITY OF TORONTO

Toronto, ON

Faculty of Engineering

Engineering Science 4th Year: ECE Option

- Dean's Honours List

ST. ANDREW'S COLLEGE

Aurora, ON

Ontario Secondary School Diploma

May 2012

- Top 10 Scholars
- Schulich Leader Nominee

BUSINESS EXPERIENCE

ADVANCED MICRO DEVICES (AMD)

Markham, ON

Windows Graphics Core Software Development - Kernel-Mode

May 2015 – Aug 2016

Driver Development Intern

- Developed code for the kernel-mode component of the AMD graphics drivers.
- Nominated for Intern of the Year.
- Led development of a new driver feature, performing market analysis, technical research, design, development, and testing.
- Won the annual WGCD debugging challenge, using WinDbg to examine system crashes.
- Pushed bug resolution forward throughout new GPU family - Polaris - bring-up.
- Updated XDMA software architecture and led 2 Polaris XDMA software projects.
- Guided customers in developing their own Eyefinity solutions.
- Mentored many new students, analyzing and re-organizing the on-boarding process.

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 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

Jan 2013 – Apr 2013

Parkinson's Disease

- 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.

TECHNICAL SKILLS

- Programming Languages: C++, Ruby, Java
- Web Development: Ruby on Rails, Heroku
- Microsoft Office
- WinDbg

EXTRACURRICULARS

HACKER ACADEMY

Executive

hackeracademy.org

Member

Sept 2014 – Sept 2016

Sept 2012 – May 2014

- A group of students passionate about tech and software.
- Organized and attended weekly talks, monthly programming competitions, online challenges, and more.
- Designed and implemented the club website with Ruby on Rails.
- Managed initiatives such as sponsorship outreach, poster design, social media outreach.

UNIVERSITY OF TORONTO AEROSPACE TEAM

Member - Powered Flight Advanced Class

utat.skule.ca

Member - Unpowered Flight

Sept 2012 – May 2013

Sept 2013 – May 2014

- Engaged in aircraft design and simulation in a team environment.
- Studied airfoil analysis with XFOIL.

NEW COLLEGE RESIDENCE COUNCIL

House Captain

Sept 2013 – May 2015

Dining Representative

Sept 2012 – May 2013

- Fostered a comfortable environment for new students.
- Planned events such as house decorating and movie nights.
- Represented a house at NCRC meetings.
- Worked with fellow council members to offer students a great experience in residence.

QUANTITATIVE PROJECTS

HACKTOBERFEST

Oct 2015

- Contributed to 2 open source projects as part of the Hacktoberfest initiative.
- Updated asciidoctor parser logic and documentation.
- Uploaded solutions to projects from The Odin Project.

hacktoberfest.digitalocean.com

asciidoctor.org

theodinproject.com

SHOOT'EM UP GAME

April 2014

- Developed a scrolling shoot'em up game in Java, sprites provided by Big Viking Games.

HACKER ACADEMY HACKATHON

Jan 2013

- Collaborated with a team of 3 to create a game for the Windows Phone 8.

ADDITIONAL

- Personal Website: alandaniels.herokuapp.com
- Github: <https://github.com/AlanDaniels101>