

Alan Daniels

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EDUCATION

UNIVERSITY OF TORONTO

Faculty of Engineering

Engineering Science 4th Year: ECE Option

- Dean's Honours List

Toronto, ON

ST. ANDREW'S COLLEGE

Ontario Secondary School Diploma

- Top 10 Scholars
- Schulich Leader Nominee

Toronto, ON

May 2012

BUSINESS EXPERIENCE

ADVANCED MICRO DEVICES (AMD)

Windows Graphics Core Software Development - Kernel Mode

Driver Development Intern

- Developed code for the kernel mode component of AMD graphics drivers.
- Won the annual WGCD debugging challenge, using WinDbg to examine system crashes.
- Updated XDMA architecture.
- Led two Polaris GPU projects - XDMA and memory training.
- Pushed bug resolution forward throughout Baffin bring-up.
- Guided customers in developing their own Eyefinity solutions.
- Analyzed and re-organized the on-boarding process.
- Intern of the year nominee
- Performed market analysis, technical research, design, development, and testing of an upcoming driver feature.

Markham, ON

May 2015 – Aug 2016

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.

TECHNICAL SKILLS

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

EXTRACURRICULARS

HACKER ACADEMY

Executive

www.hackeracademy.org

Member

Sept 2014 – present
Sept 2012 - May 2014

- Programming and technology club.
- Weekly talks, monthly programming competition, online challenges, and more.
- Designed and implemented the club website with Ruby on Rails.
- Wrote a programming competition and multiple challenges.
- Scheduled events and speakers.
- Managed initiatives such as sponsorship outreach, poster design, social media outreach.

UNIVERSITY OF TORONTO AERONAUTICS 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/
www.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>