

- TALKS:**
- “Mapping the Crisis in Affordable Housing”
 - Speaker, [Locate](#) (Mapbox conference), San Francisco, 2018
 - “Build your own Beautiful, Detailed, and Interactive Map in 4 Hours”
 - Workshop, [OpenVisConf](#) (premier visualization conference), Paris, 2018
 - “Making Boring Charts Beautiful”
 - Upcoming Workshop, International Open Data Day at the Edmonton Public Library, 2018
 - “The Hidden (and some Not-So-Hidden) Ways Open Data Transforms Society through Innovation”
 - Presentation, Canadian Open Data Summit, 2017
 - “Make Your Open Data Dance with D3 (What Those Cool Visualizations are Made With)”
 - Workshop, Alberta Open Data Summit, 2016
 - Tech Workshop, ECE Week at the U of A, 2016
 - “A Taste of D3: Why, What’s Possible, and... How!”
 - Presentation, Grant Mac Talk about Analytics, 2017
 - Presentation, BetaCity YEG, 2016
 - Presentation, Jobber, 2016

- MEDIA:**
- “Mapping expert makes detailed census data available to all Edmonton election candidates”, [Journal](#), 2017
 - “Don Iveson using new tool to reach voters”, [CTV News](#), 2017
 - “Hundreds of thousands of polygons rendered on the fly”, [Mapbox](#), 2017
 - “Is your property tax fair? New mapping project gives residents tools to better figure it out”, [Journal](#), 2017
 - “New map shows visualization of Edmonton home assessments”, [Journal](#), 2017
 - “Edmontonian creates app to help people in need find Edmonton services”, [Metro](#), 2015

- AWARDS:**
- Winner, Best Overall and Audience Pick of Exchange.js Showcase (Edmonton’s Javascript meetup), 2017
 - Shortlists, Information is Beautiful Awards on [MapInSeconds.com](#), 2016
 - Winner, Edmonton’s Open Data Hackathon 2016
 - 3rd Place, Battlehack Singapore Hackathon 2015
 - Shortlist, Information is Beautiful Awards on [WorldChatClock.com](#), 2014
 - ... (more older awards on the last page)

- ACADEMICS:**
- University of Alberta MSc in Computing Science Ongoing
 - University of Alberta BSc in Electrical Engineering with the Co-op Option Jun 09
 - (Average Graduating GPA of 3.9 (last 2 years), Graduated with Distinction (3.7 overall))

- WORK EXPERIENCE:**
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- Darkhorse Analytics (Edmonton), CTO & Director Feb 12 – Ongoing
 - Lead technical strategy, manage our development team
 - Create and iterate on visualizations for clients
 - Manage external projects and various internal initiatives
 - Create publicly-facing projects like [assess.dha.io](#), [MapInSeconds.com](#) and [WorldChatClock.com](#)
 - Organize company hackathons, one won top prizes for Apps for Alberta Competition 2015 (\$60K of \$70K prize pool)
 - Help determine company strategies and goals
 - Lead our hiring process
 - Present and help teach data visualizations in the community through workshops and presentations
- BoardSuite Corp (Toronto), Director of Technology Development Feb 11 – Jan 12
 - Assembled, trained, and managed development team. Migrated existing tech to open source platforms
 - Took over product management, forecasting and planning responsibilities
 - Implemented Agile processes, generated technology documentation and intellectual property
- nForm User Experience (Edmonton), Contracted Developer Oct 10 – Jan 11
 - Led development and fleshed out features and functionality on new, V1 product
 - Responsible for implementation of critical and sensitive components (such as authentication and admin tools)
 - Delivered fully functional product ahead of timelines and schedules

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- Firenest Innovations Inc (Edmonton), CEO and Co-founder Apr 09 – Oct 10
 - Directed company, business strategy and execution
 - Development of full business plan and delivered company presentations, pitches → VenturePrize runners up
 - Responsible for front-end UI, UX design plus initial infrastructure development
 - Lead market research, customer feedback and acquisition efforts

- Degree-Required Co-op + Summer 3-4 Month Work Terms, ~2 Years Total Required from 2004.
 - * **Received highest possible “Excellent” grade on each of my Co-op Work Terms from employers**
 - Microsoft Startup Labs (Cambridge, MA), Intern Program Manager Summer 08
 - Managed three new skunkworks projects for a future product line
 - Fleshed out concept, created deck, and presented proposed product to senior C-Level management
 - Attended several Web 2.0 forums, sessions, events throughout Boston and Cambridge
 - Microsoft Visual Studio Team System: Team Dev (Redmond, WA), Intern Program Manager Summer 07
 - Collaborated with various teams for research project on a future product
 - Designed and implemented a unique, trackable online repository for project
 - Produced award-winning project for a Microsoft-wide intern design competition
 - Microsoft Windows Live ID (Redmond, WA), Intern Program Manager Fall 06
 - Worked on improving partner/Live ID experience, collaborated with MS Research on internal project
 - Delivered on functional specs for CardSpace and rich-client Windows Live ID auth integration
 - Community Committee Member, Microsoft’s 1st Asian Pacific Leadership Development Conference

- Research In Motion: RTS (Waterloo, ON), 3GPP Compliance Specialist Winter & Summer 06
 - Created Asset Management System to track compliance for multi-million dollar equipment
 - Produced a 32-page co-op report on the future of the wireless (telecommunications) industry
 - Worked with GSM, GPRS, EDGE, UMTS technologies, wireless industry operations

- Mediashaker Inc (Edmonton), SW Developer Summer 05
 - Developed on Mediashaker’s CMS (Content Management System)
 - Liaised and met various clients’ software development needs for multiple projects

- Worldwide Link Ltd: IT Group (Edmonton), Associate Summer 04
 - Developed company site, filtering programs, represented Worldwide Link Ltd in Kuala Lumpur
 - Planned, Rolled out solutions to Worldwide Link’s growing I.T. infrastructural needs

- Ministry of Defense (Singapore), Training R & Management Centre, Mandatory Military Service Oct 00 – Feb 03
 - Developed a multi-user DBMS, did projects in India, Australia (details in *International Experience*)
 - Won several national (Singapore) awards for safety and efficiency projects

- DBS (Singapore), Credit Risk Policy & Monitoring Sep 99 – Aug 00
 - Developed and helped perform training for two separate corporate credit analysis applications
 - Oversaw programs’ and project completion, maintenance and enterprise/server deployment

LEADERSHIP/VOLUNTEERING EXPERIENCE:

- Volunteer and Data Focused Member at Large, Edmonton’s NextGen Jan 17 – Ongoing
 - Participant and Director, BetaCityYEG, Edmonton’s civic tech meetup Oct 15 – Ongoing
 - Data Director, the Re-elect Don Iveson for Mayor municipal campaign Jun 17 – Nov 17
 - Co-chair, the Ignite Working Group, Edmonton’s NextGen Oct 14 – Dec 16
 - Co-Founder, “Volunteer with NextGen” events, providing group volunteering opportunities for new volunteers Dec 15
 - Workshop Instructor, Alberta Open Data Summit Oct 15
 - Volunteer, Edmonton’s NextGen (making Edmonton an engaging place to live in for 18-40 year olds) Aug 11 – Oct 14
 - Client/Mentor for University Capstone Design Project: Cocktails Data Visualization Jan – May 14
 - Client/Mentor for University Capstone Design Project: Emergency Dispatcher Game Jan – May 13
 - Client/Mentor for University Capstone Design Projects: Video Blimp and Blind Sonar Projects Sep 11 – May 12
 - Co-Founder, Meaet, a microfunding initiative for grassroots projects. This has run 10 times over the years. Aug 11
- ... continued next page

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LEADERSHIP/VOLUNTEERING EXPERIENCE (CONTINUED):

- 1st Runner Up (Team), Innovative Design at the Western Engineering Competition 2009 2009
- VP Awareness, University of Alberta Golden Key International Honour Society Chapter Sep 08 – Apr 09
- Representative (as student group executive), University of Alberta Student Union Leadership Summit 2008
- Director, All divs (~2300 members and staff), Waterloo Cooperative Residence Incorporated (WCRI) July 06 – Mar 09
- Director of Programs, Canadian Federation of Engineering Students Congress 2008 Oct 07 – Jan 08
- Inter-Divisional Council Chair, All divs (~700 members), WCRI May 06 – Aug 06
- Committee Member, RIM Co-op Social Committee, Research In Motion (RIM) + Divisional Chair, WCRI Jan 06 – Apr 06
- President, University of Alberta SPIE Student Chapter May 05 – Apr 06
- Cofounder & Team Member, Project Stepping Stone (details in *Technological Experience*) July 05 – July 06
- Cofounder & Vice President, University of Alberta SPIE Student Chapter + Associate Tech Editor, The Bridge Sep 04 – Apr 05
- VP Academics, First Year Engineering Club Oct 03 – Apr 04

INTERNATIONAL, NATIONAL EXPERIENCE:

- Speaker, Canadian Open Data Summit Jun 2017
- Student Delegate, 1st Canadian Engineering Summit 2009, Montreal May 2009
- Nationals Competitor, Innovative Design at the Canadian Engineering Competition 2009 Mar 2009
- Director of Programs, Canadian Federation of Engineering Students Congress 2008 Oct 07 – Jan 08
- Presenter, Harvard Project for Asian and International Relations Academic Conference, Beijing Aug 2007
- Selected delegate, Harvard Project for Asian and International Relations Business Conference, Hong Kong Aug 2007
- Delegate, Cyberposium 12, Harvard Business School, Tech-focused MBA Conference, Harvard, Massachusetts Nov 2006
- Selected delegate, Harvard College Asian Business Forum (HCABF), Mumbai, India Aug 2006
- Delegate as chapter executive to Optics & Photonics 2005 (San Diego), Photonics West 2006 (San Jose) 2005, 2006
- Represented Worldwide Link Ltd (Canada) at K-Link International Convention, KL, Malaysia 2004
- Presented at International Convention for Quality Control Circles (ICQCC) in Lucknow, India 2002
- Flew to Australia as part of the Environmental Management Group 2001
- Represented Canada in Hewlett Packard Global Business Challenge & Edmonton-Harbin Sister City Exchange 1998, 1999

ADDITIONAL TECHNOLOGY EXPERIENCE:

- Produced projects like an SMS feedback app and LinkYEG.ca for BetaCityYEG, a civic tech meetup group (2014-ongoing)
- Developed StatisticsEdmonton.com, “maptistics” + custom data for Apps4Edmonton competition, won > \$10K (2010)
- Created working Bluetooth and RFID projects that communicate tag information and computer control
- Won with the EE Team, the University of Alberta’s Engineering Week’s multidisciplinary Design Competition. (2007)
- Developed program to quickly solve “Ultimate Puzzle” with $\sim 9 \times 10^{22}$ combinations with C++ (Project Steppingstone)
- Worked with GSM, GPRS, EDGE, UMTS technologies, wireless industry operations at BlackBerry



Left: “A Mobile Future”, a 32-page work term report on the Mobile Future, later presented at the Harvard Project for Asian and International Relations 2007 Academic Conference, Beijing, China.

Right: The [Punch Punch Revolution System \(PPRS\)](#): My fun-game health idea that was, with my project team for our Capstone project, brought from concept to developed prototype. 1st Runner Up for the Western Engineering Competition, went to Nationals (Canada, 2009).

OLDER AWARDS:

- Winner (Over \$10K), Apps4Edmonton 2010 (Apps Competition, “The Way We Plan” with [StatsYEG](#)), 2010
- Runners Up (Over \$40K), TEC VenturePrize 2010 (Alberta-wide Business Plan Competition), 2010
- Golden Geer Award (in recognition of years of outstanding service to engineering students), 2009
- Microsoft Popfly prototyping design competition, 2007
- From Shell, the Top-Valued Engineering Undergraduate Leadership Award, 2006 - 2007 and 2006 - 2005
- University of Alberta Scholarship, 2008 - 2009, Jason Lang Scholarship, multiple times
- National (Canada) In-Course Millennium Excellence Award, 2004 - 2005