Aaron Pan

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SUMMARY OF QUALIFICATIONS

Software

- Experienced in Python, C, Java, HTML, CSS, Matlab and R
- Familiar with PHP, SQL, JavaScript, and Embedded Software Development

Hardware

- Experienced in PCB Design and Manufacturing, Verilog, Assembly, and I^2C
- Experienced in CAD, simulation and fabrication *(SolidWorks, AutoCAD, ANSYS, lathe, mill, composite layups)*

Business

- Experienced in Accounting and Financial Principles, Product Management and Online Marketing
- Familiar with Raising Seed Investments, Customer Relations and Agile Methodology

EMPLOYMENT EXPERIENCE

Summer Student Analyst, *Cenovus Energy Inc,* *July 2014 – Aug 2014*

- Conducted a utilization study on all 41 Cenovus H&S fleet vehicles to pinpoint safety risks and usage inefficiencies
- Worked independently with H&S Asset Group Leads to pinpoint current vehicle situation and desired optimal state
- Results indicated 43% improvement opportunity, while indicating need for improved data collection/agglomeration
- Final conclusions and report presented to H&S Leadership team for implementation in 2015 budget

EXTRACURRICULAR EXPERIENCE

Co-Founder, *SHAD Valley Alumni Club, University of Toronto Chapter* *Sept 2014 – Present*

- Created a university chapter, uniting 140+ alumni passionate about STEM, entrepreneurial and business subjects
- Lead a team of 7 to host professional networking events for SHAD Valley alumni in the Toronto area

Rocketry Design Member, *University of Toronto Aerospace Team (UTAT)* *Dec 2014 – Present*

- Using ANSYS and Solidworks, designed and simulated rocket bulkhead bay to handle 3000N+ parachute force
- Contributed to airframe fabrication (lathe, mill composite layups) as part of overall paraffin-N2O sounding rocket

Huntington's Safety Design Concept, *University of Toronto* *Feb 2015 – Apr 2015*

- Stakeholder engagement with various professors and Huntington's patients to re-scope and frame opportunity
- Designed a sleeve to reduce safety risks through a Transcutaneous electrical nerve stimulation(TENS) unit
- Integrated TENS unit and various sensors using an Arduino board through C/C++ programming

SHAD Valley Entrepreneurship Cup, *Lakehead University* *Jun 2014 – Jul 2014*

- Competed against 50+ teams from different universities across Canada on methods to reduce our carbon footprint
- Created an innovative, transit-usage monitoring platform to promote alternative modes of transportation

HONOURS / ACHIEVEMENTS

3rd Place at Accenture Consulting Engineering Competition (UTEK), *University of Toronto* *January 2015*

- Placed 3rd out of 18 teams on a consulting pitch to redesign the City of Toronto's Solid Waste Management Strategy
- Only first-year team to qualify for finals round, and defend our recommendations to a panel of professional consultants

Accenture Future Technology Leaders Program, *Accenture* *Feb 2015- Present*

- Selected as a member of a global community of over 225 students in 19 countries for demonstrated leadership capabilities
- Currently receiving mentorship and workshop expertise through Accenture consultants

EDUCATION

University of Toronto, *Bachelor of Applied Science: Engineering Science* *Sept 2014 - Present*

- Dean's Honour List, President's Scholarship; Calgary SKULE Scholar, Kermet Van den Brink Scholar ($25000)
- **Activities:** Engineers Without Borders Executive, Journal for Student Science and Technology Editor (JSST)