

Andrew Lau

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SUMMARY OF QUALIFICATIONS

- Developed a solid knowledge of engineering and design strategies through projects and extracurricular activities
- Experienced and proficient in various programming languages: Java, C, C++, HTML/CSS, MATLAB
- Strong understanding of MS Office applications (Word, Excel, PowerPoint, Outlook, Project) and Google's 'G Suite'

EDUCATION

University of Toronto **Expected Apr 2021**
Bachelor of Applied Science in Computer Engineering

- **Cumulative GPA: 4.0 / 4.0**

PROJECTS

FoodSnap (UofT Hacks) **Jan 2018 - Present**

- Jointly developed an Android app allowing users to automatically add calorie data to their Fitbit account based on a picture of their food
- Integrated IBM Watson Visual Recognition API and Google Sign-in API using Android Studio and Java

Autonomous Football Transporter (York Regions Skills Competition) **Oct 2016 - May 2017**

- Architected a fully autonomous robot capable of retrieving and delivering footballs while navigating obstacles
- Optimized robot performance using RobotC and button switches in a team of 4
- Ranked 1st in the autonomous robot section

VOLUNTEER & LEADERSHIP EXPERIENCE

Cycling and Pedestrian Advisory Committee | Markham, ON **Sept 2015 - Sept 2016**
Information Booth Volunteer, Markham Cycling Day

- Communicated event details and directed attendees to appropriate locations to ensure a successful event
- Operated a spin-the-wheel game based on cycling by-laws unique to the City of Markham for participants of all ages

City of Markham | Markham, ON **Sept 2015 - June 2016**
Ambassador, Markham Mayor's Youth Council

- Planned and executed to promote youth advocacy within the City of Markham
- Designed a monthly newsletter highlighting local volunteer opportunities

YMCA of Greater Toronto Area | Markham, ON **Sept 2013 - June 2015**
Youth Leader, Markham YMCA Rudy Bratty Centre

- Collaborated with peers to organize and plan numerous events benefitting local families and raising awareness of global events
- Ensured successful operation of events including the YMCA Halloween Event, Healthy Kids Day, Philippines Earthquake Bake Sale, Easter Egg Hunt

EXTRACURRICULAR ACTIVITIES

Blue Sky Solar Racing | Toronto, ON **Jan 2018 - Present**
Electro-mech Team Member

- Utilized 3D CAD modelling in SolidWorks to design PCB enclosures and wiring systems
- Collaborated with team to create custom cockpit interface panel and steering wheel optimized for race crew drivers

Mallards Swim Team | Markham, ON **Sept 2008 - June 2017**
Competitive Swimmer

- Qualified and competed at various provincial and regional level competitions
- Mentored younger swimmers during practices and competitions to help them reach their goals

AWARDS AND CERTIFICATES

- Royal Conservatory of Music Grade 10 Practical with Honours (Aug 2017)
- University of Waterloo Mathematics Contest Distinction Certificates (2012-2017)
- Unionville High School Academic Honour Roll Certificates (2014- 2017)

INTERESTS

- Quadcopters, Gordon Ramsay, Equity Investments, Cryptocurrency Mining, Photography
- Traveling – recent destinations include Iceland, Hong Kong, Malaysia, London, Paris