

RYAN XURAN TIAN

Grade 12 Student in Appleby College

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EDUCATION:

- **Secondary School:** Appleby College, Oakville, Ontario, Canada

RESEARCH EXPERIENCE:

- **Student Researcher & Algorithm Optimizer, Autonomous Driving Research Project at the University of Michigan, Summer G11**
Supervised by Prof. Shan Bao at UMTRI (the Autopilot lab); made models (vehicle movement simulation models and 3D visualization models) for testing of simulated autopilot algorithms; optimized Visual Basic code to process the data collected through vehicle tracking and recording; calculated and built accurate paths of vehicles for demonstrations.
- **Designer and Developer, Social Sport App (I.M.P.) on iPhone, G9-G12**
Implemented a social sports platform for existing and aspiring athletes to communicate and grow together by designing a universal mathematical scoring model for both biking and running based on the iPhone battery charging and consumption (the first app in Apple Store providing measurable competition across multiple sports); the application is currently under review by the Apple App Store for public access, and the hardware dynamo charger is scheduled to be installed in Appleby College.
- **Team Leader, SHAD Valley Summer Camp 2019, Summer G11**
Led a team of eight in SHAD Valley Canada 2019 in the University of New Brunswick Campus; the team earned first place with the project "RED" in SHAD UNB annual entrepreneurship competition.

AWARDS AND HONORS:

- Volunteer Service Awards of Ontario, nominee (provincial level, signed by the Premier of Ontario), **G12**
- Community Volunteer Award by Toronto Community & Culture Centre, **G12**
- AP Scholar with Distinction, **G11**
- The Duke of Edinburgh's Award, Bronze Level, **G11**
- Optimizes Award of Appleby College, **G9, G10 and G11**
- Special Award in CYFA Youth Business Proposal Competition Year 2018, **G11**
- Gold Design Award for the 4th/6th International Youth Handwritten Hand-painted Postcard Competition (top 1% out of more than 40,000 contestants, international level), **G9 and G11**
- Award of Excellence Performance in 2019 Children's Spring Festival, **G11**
- Gold Leadership Award in the 4th/5th/6th International Youth Handwritten Hand-painted Postcard Competition, **G9, G10 and G11**
- Piano Level 8 Certificate by the Royal Conservatory of Music, **G10**

LEADERSHIP EXPERIENCES:

- **Vice President of Canadian Youth Funding Association, G12.** Organized annual youth performing festival and regular performing events; evaluated and scheduled programs; arranged rehearsals, and ultimately served the 40+ performing groups and 200+ youth in total to display their talents and skills as well as learn fundamental skills from leadership to stage performance.

- **Program Coordinator and Associate Director** of “2020 Children’s Spring Festival” event, **G12**. Built connections to Arts schools and local performers in West Toronto; organized the program selection procedures; recommended 16 out-performing programs to the director board as final program candidates, and will help directing the event in January 2020.
- **Sustainability Representative, Powells House, G12**. Represent house members in sustainability as well as service; designed and ran sustainability initiatives and created opportunities for students to positively impact the community.
- **School Team Leader** of “BlueDog Mechanics” (Appleby’s first competitive Vex-Robotics team), **G11** and **G12**. Helped members develop; fostered creativity and engineering thinking; communicated with school supplying department to order new parts; designed and built competition robots.
- **Founder and Managing Director** of “The Blue Dogs” band, **G10-G12**. Recruited band members; designed and maintained the website and YouTube channel; arranged band schedules; communicated with event organizers to obtain performance opportunities; ran the routine rehearsals and performances; the band has performed at events with 1,000+ audience members.
- **Co-founder and North American Director** of “International ETClub” to tutor English and TOEFL exams, **G10- G12**. Designed the training sessions; published introduction articles; led news and novel reading sessions, and tutored English exams to non-native students.
- **Prominent Leader** at “Youth Toastmasters Oakville”, **G10- G12**. Organized the weekly Toastmaster public speaking sessions; promoted the club to communities; collected themes for sessions, and arranged regular meetings to improve the effectiveness of the club.
- **West Toronto Director** of the 4th/5th/6th international postcard design competition, **G9-G11**. Built connections with over 20+ schools in the west of GTA; assigned and managed the volunteers to distribute and collect postcards, and coordinated with the international director board to hold the competition.
- **Founder and President** of “Interactive Spoken English Club” in Beijing, China, Summer **G9**. Found the club for students, adults and English teachers; designed courseware; promoted the club to local communities; coached students and teachers, and held routine sessions.

VOLUNTEERS AND ARTS

- **Peer Tutoring Club Member at Appleby College, G10-G12**. Tutored Appleby students in music, physics, computer science, math, and English.
- **Engineering and Architecture Design, G9-G12**. Designed engineering devices and architecture prototypes to improve the environment and social life quality; have an architecture portfolio which includes the relevant project I made since G9.
- **Professional Artist on Oil Painting, G9-G12**. Professional artist; learned sketch and oil painting with world-famous artists since 10; earned rewards on designing and drawing, and have artworks sold. One artwork is currently in the exhibition of “The 4th Annual Cityscapes Art Exhibition” in Palm Springs, California, USA; a set of my artwork postcards is published and on sale.
- **Member of Burlington Teen Tour Band (also, The City of Burlington) of 75-Year History, G9-G12**. Regular performances in public parades in Canada and the US, such as Toronto Santa-Claus Parade, Remembrance Day parade, and yearly overseas performances such as the California Rose Parade.
- **Lead of the Wind Players, Appleby Orchestra Band, G10-G12**. The orchestra holds regular performances inside the school, and organizes a performance each April to celebrate Appleby College’s Arts.