

# Tony Shen

*Honours Electrical and Computer Engineering | Term 1A*

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## Skills

### **SOFTWARE**

Java | C++ | Eclipse IDE | Agile | DevOps | SDLC |  
Windows | Microsoft Office Suite | Sage Accounting

### **HARDWARE**

Computer Building | Circuitry | Soldering

## Summary of Qualifications

### **TEAMWORK | COMMUNICATION**

- Customer service job, working in large team
- Playing in music groups, section leader/principal

### **TIME MANAGEMENT | ORGANIZATION**

- Balancing extracurriculars, job, school, multitasker
- Wide involvement, cello, badminton, work, OPHB

### **INDEPENDENT WORK | SELF-DRIVEN NATURE**

- Self-taught Java, C++, online research/resources
- Excellent academics, honour roll, strong work ethic

## Projects

### **OPERATIONAL DATABASE (C++)**

- Programmed database, input from user and .csv file, output to file, user friendly, error correction
- Program has functions for sorting, finding statistics
- Part of self-teaching, done within first week of C++

### **COLOUR ORGAN SPEAKER**

- Designed and built speaker taking audio input and flashing different colour lights for discrete pitches
- Understanding of circuit components (transistors, potentiometers, integrated circuit), soldering skills

## Experience

### **TEAM MEMBER | TIM HORTONS**

*Aug 2017 – Aug 2018*

- Interacted with customers as both a cashier and drive-thru operator, built communication skills
- Worked alongside a large team to prepare food, drinks, and maintain cleanliness
- Learned the value of good interpersonal skills – with both coworkers and clients
- Developed valuable time management skills, working 15+ hrs/wk, in addition to other extracurriculars in grade 12 year
- Kept academics up despite stress in schedule

## Education

### **UNIVERSITY OF WATERLOO**

*Sep 2018 – Present*

- Candidate for Bachelor of Applied Science 2023 - Electrical and Computer Engineering - Term 1A
- Relevant Courses: Fundamentals of Programming, Linear Algebra, Calculus I, Physics I

### **MARKHAM DISTRICT HIGH SCHOOL**

*Sep 2014 – June 2018*

- Advanced Placement, Gifted Program, Honour Roll

## Extracurriculars

### **ONTARIO PROVINCIAL HONOUR BAND**

*Oct 2017 – Nov 2017*

- Principal Bass Clarinet, important leadership role
- Rehearsed and performed with a large group of musicians over one week, under conductor

### **MDHS MUSIC PROGRAM**

*Sep 2014 – Jun 2018*

- Spent 5+ hrs/wk rehearsing: Wind Symphony (section leader), Jazz Band, Clarinet Quartet
- Took leadership responsibilities as a section leader, teaching classmates, setting up rehearsals

### **BADMINTON**

*Aug 2016 – Mar 2018*

- School team (5<sup>th</sup> in regional tournament), coached and ran exercises with younger players
- Trained 5 hrs/wk at E-Badminton Club, worked in pairs through doubles play

### **CELLO**

*Apr 2016 – Nov 2017*

- Studied up to RCM Grade 4 Cello, dedicated 4 hrs/wk to lessons and practice in grades 10 – 12

## Awards

### **COLLEGE BOARD AP EXAMINATIONS**

*May 2017 – May 2018*

- Achieved Level 4: AP Physics 1, AP Calculus AB

### **UWATERLOO MATH COMPETITIONS**

*Dec 2016 – Apr 2018*

- Placed top 25% of Contestants: Euclid, Galois, Cayley, and Canadian Intermediate Math Contests