

# Thomas Arellano

53 Peer Drive, Guelph, ON, N1C1H1, Canada  
(226) 821-1773 | tgarella@uwaterloo.ca | Computer Engineering | tarellano.com | github.com/tarellano

## SKILLS

---

- Proficient in C++, C#, Java, HTML5, and experience with git through programming courses
- Good communication skills shown in report writing and presentations as Chair of Communications Council
- Able to adapt and quickly learn when faced with challenges as seen in excellent performances in math contests

## PROJECTS

---

**Impulse, C# Game** Guelph, ON  
*Bishop Macdonell CHS* May 2015 – Jun 2015

- Built a billiard-style game with realistic collision code and physics simulation using object oriented programming
- Designed functional user interface, challenging levels, and appealing graphics

**Self-driving Car, Arduino Hack** Guelph, ON  
*Bishop Macdonell CHS* May 2015 – Jun 2015

- Built an autonomous RC car with a custom servo-motor for more precise steering in a small team
- Programmed automatic steering using feedback from range finders to maneuver and avoid obstacles

**Twack, C# Game** Guelph, ON  
*Bishop Macdonell CHS* Mar 2013 – Jun 2014

- Designed and developed a C# game with custom artificial intelligence and graphics
- Collaborated with a team to brainstorm and plan the development of the game

## EXPERIENCE

---

**Bishop Macdonell CHS** Guelph, ON  
*Tutor, Math and Science* Sep 2013 – Jun 2014

- Taught math and science to high school students after school
- Setup communication system between students for feedback and homework help

## AWARDS AND SCHOLARSHIPS

---

- 2015 Schulich Leader Nominee, for innovation and leadership skills within the fields of STEM
- 2015 University of Waterloo President's Scholarship, for 94% entrance average
- 2015 Cardinal Collins Achievement Award, for achieving above 90% throughout all of high school

## EDUCATION

---

**University of Waterloo** Waterloo, ON  
*Candidate for Bachelor of Applied Science, Computer Engineering* Sep 2015 - Present

- Relevant courses: Embedded Systems, Digital Circuits; developing repertoire of C++, Java, and VHDL