## GARY SHEN

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**Experience** 

**Summary of Qualifications** 

Experience: Exceptional student with relevant work experience in a research environment and on self-guided projects.	Algorithm Trading Club February 2017-Present Platform Developer Cambridge Brain Sciences February 2017-Present
_anguages: C++, Java, JSON, C#, C, MATLAB, R, HTML, CSS, Javascript, Python	Owen Lab Research Assistant/Developer Western Management Club October 2016-December 2016 Business Consultant
<b>Technologies:</b> Android, ReST, Shiny, Weka Machine Learning), Altera Quartus (FPGA)	Provided pro-bono consulting for Mystery Escape Rooms Prepared comprehensive marketing plan for expansion to new location
Personal Skills: Creative problem solver able o learn new concepts quickly who welcomes challenging problems with a detail oriented mindset and strong initiative.	Western University
Education	efficient than previous indoor locationing standards.
Western University 2015-2020 (Expected) BESc Candidate   94% Average Pursuing Computer Engineering and Honours Business Administration Dual Degree Dean's Honor List 2016	Researched activity recognition based on applying machine learning to smartphone sensor data and specific mitigation procedures for effects of sensor difference. Wrote MATLAB scripts and implemented Weka machine learning tool for data collection, classification and analysis increasing accuracy from 76% to 92%.
Publications	Findings were published at the IEEE SMC 2016 Conference.
A Novel WiFi-Based Indoor Localization	Freelance October 2011- August 2013 Web Developer
System 2017	Designed and developed websites for a variety of local clients.
Shen, G., Yin, X., Wang, X. and Shen, C. EEE CSCWD 2017	Additional Projects
Mitigating Sensor Differences for Phone-Based Human Activity Recognition. 2016 Yin, X., Shen, G., Wang, X. and Shen, W. EEE SMC 2016	BikeSayf for V2V
Awards	detect arm signals and communicate with surrounding cars, integrating bikes into the V2V infrastructure.
NSERC USRA 2016	Smart Bed Monitoring System
Awarded 1 of 5 faculty undergraduate student research awards by the National Sciences and Engineering Research Council.	recognizes bed-related activities, falls and sleep patterns using Flexiforce sensors and Zigbee.
Top First Year Design Project 2016	Implemented decision tree model developed from a machine learning algorithm with supervised data.
Course project was recognized as one of the top	Fall Detection App2014
10 out of over 100 first year projects.  National President's Scholarship 2015  Awarded 1 of 20 top Western University entrance	Coded for an fall detection app that uses smartphone sensor data.  Used Twilio API to generate alert SMS to respond to detected events.  Created algorithm to identify falls with an 80% accuracy.
scholarships in recognition of all-round	Leadership Positions
excellence and achievement in extracurriculars and academics	-
Loran Scholar Program Semifinalist . 2015	Undergraduate Engineering Society Council   2nd Year ECE Rep Thames Valley Science/Engineering Fair   Judge, Sponsorship Head
Awarded to young Canadians who demonstrate	Western Founders Network   Education Portfolio Director
exceptional character, service and leadership. <b>Team Canada ISEF Top 30</b>	Heart 4 Heart Charity London Chapter   VP Finance Western Scholars Research Conference 2016   Organizer IEEE CSCWD 2013 Conference   Registration Volunteer
projects in Canada in selection process for	Other Employment
representing Canada at the International Science and Engineering Fair	
Canada Wide Science Fair 2011-2015 4 x Bronze Excellence award	Delta London Armouries   Restaurant Porter
Resource Challenge award	Terzan Tech   Co-Founder, Developer2012-2015