	EREMY WANG	http://www.eng.uw	aterloo.ca/~jy7wang
		⊠ jy7wang@uwaterloo	<u></u>
	Mechatronics Engineer • 20382498 •	🖀 (226) 339 - 1454	
PROFILE	I am an ambitious hacker, a MarsRover robotics team lead, a retired college football player and an all-around passionate engineer who is ready to pour out the skills and knowledge I have acquired from the past five years of school and internship experiences to change the world.		
SKILLS	 Hardware: Schematic capture and PCB layout PCB prototyping, design and assembly Digital and Analog circuit design and debug Microcontrollers, ICs, transistor logic expertise EAGLE, LTSpice, PSpice, PSIM, Labview FPGA Coding, Altera Quartus II, Solidworks 	Software: Embedded firmware d Large scale web deve Java, C#, C, C++, Pyth Javascript, HTML, CSS, Eclipse, Visual Studio, S ROS, Linux, QT Designe	lopment non, MATLAB, SQL JSP SQLyog
EDUCATION	 Bachelor of Applied Science, Mechatronics Engines University of Waterloo - Cumulative Avg: 829 		Sept 2010 - Apr 2015
PROJECTS	 Sonar RGB LED Cube 4x4x4 RGB cube with custom installed sonar sensors to allow user motion control LEDS driven with TCL5940 drivers and controlled by custom made controller Custom programmed animations and 3D sonar game mode LED Word Clock Display time in words by driving LEDs using ULN2003AN drivers controlled by shift registers Custom designed controller using the ATmega328 chip and programmed in Arduino IDE 		
	 Hardware Design Engineer, Lumotune Inc, Kitchener, ON Apr 2014 - Aug 2014 Designed, simulated, and prototyped high voltage and high frequency drivers to control LCD films through a passive matrix architecture Developed power switching circuits controlling variable voltage and frequency; implemented circuit techniques such as invertors, rectifiers and filters Used Electric Imp microcontroller to interface with various components and ICs such as I/O expanders, shift registers, high voltage drivers, MOSFETs and TRIACs Schematic capture and PCB layout experience using Cad EAGLE Circuit simulation experience using LTSpice and PSpice 		
() IMS	 Software Engineer, IMS Inc, Waterloo, ON Backend development for large-scaled software projects in Java using Eclipse IDE Frontend web UI design using Javascript, JSP, HTML, CSS Wrote Python scripts and SQL queries for data mining and increased testing efficiency 		
O zSpace [*]	 Software Display Engineer, zSpace Inc, Mountain View, CA, USA Jan 2013 - Apr 2013 Knowledge of LCD display architecture, color theory and 3D display technology Designed an automated data collecting robotic system by integrating a ThorLabs motor controller, stepper motors and a Konica Minolta Display Color Analyzer Programmed the software GUI in Visual C# .NET for automatic batch measurements Coded MATLAB scripts to process measurement data files and generate plots to demonstrate display parameters and characteristics Installed the automation system to the display manufacturer and trained production line workers in using the software to increase production efficiency 		
IGNIS Innovation Inc.	 Engineering Intern, IGNIS Innovation, Waterloo, ON Performed hardware bring-up tests of digita Experienced in soldering techniques and usi Hacked a Canon scanner and automated a Acquisition API in Python Designed and developed a data parsing scanner and automated a construction and automated a construction and a data parsing scanner and scanner a	ing lab equipment such as a display measurements using	g the Windows Image
AWARDS	Academic All-Canadian, Varsity Football, Canadian Undergraduate Student Research Award, NSERC of G		Sept 2014 Apr 2014