

<u>Group</u>	<u>Title</u>	<u>Description</u>	<u>URL</u>
1	Single Player Air-Hockey Table (SPAHT)	To create a robotic air hockey table that is capable of simulating the play of a human opponent, and to allow for enjoyable single player air hockey game-play	<a href="http://airhockey.hosterbox.net/wp/">http://airhockey.hosterbox.net/wp/</a>
2	3-D Printer: Laser Sintering of Chocolate	An SLS-type 3D printer prototype which implements low-cost laser optics and XY-stage assemblies, making use a truly novel print material: chocolate	<a href="http://www.chocolateprinter.wordpress.com">www.chocolateprinter.wordpress.com</a>
3	Power Assisted Cart	A power assisted cart to help transporting heavy objects	<a href="http://www.eng.uwaterloo.ca/~c24lu/">http://www.eng.uwaterloo.ca/~c24lu/</a>
4	Ride For a Drop	Design of a portable water purification system that can be attached to any bicycle. This will help people save time and extra labour, and at the same time, get clean drinking water	<a href="http://www.rideforadrop.com/">http://www.rideforadrop.com/</a>
5	The RoboCup Soccer Robots		<a href="http://warbots.ieee-sb.ca/drivetrain/">http://warbots.ieee-sb.ca/drivetrain/</a>
6	Location Aware Home Network (LAHN)	LAHN is a location aware smart home solution that allows home occupants to monitor, control and optimize their home electrical appliances usage through the use of mobile and web technology	<a href="http://nroviw.com/lahn/home.html">http://nroviw.com/lahn/home.html</a>
7	Palette	A customizable hardware interface, made for you, made by you	<a href="http://www.paletteui.com/">http://www.paletteui.com/</a>
8	FretON	Simplifying the self learning process for the electric guitar through the use of an embedded teaching system	<a href="http://fretonfydp.wordpress.com">fretonfydp.wordpress.com</a>
9	Automated Egg Washer	Design and build an automated cleaning and sorting machine for a small-scale farming operation	<a href="http://www.eng.uwaterloo.ca/~jwkurtz/">http://www.eng.uwaterloo.ca/~jwkurtz/</a>
10	Auto Valet Park	Automated Valet Style Parking for Commercial and Residential Areas	<a href="http://www.autovaletpark.com">www.autovaletpark.com</a>
11	Automation of a Laparoscopic Suturing Tool	An Automated Laparoscopic Suturing Tool to be used in minimally invasive surgeries for future research with the KidsArm project at the Toronto Hospital for Sick Children	<a href="http://www.roboticsuturing.ca/">http://www.roboticsuturing.ca/</a>

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12	Digit Kinesis	An electromechanical finger prosthetic that converts electric signals in the forearm to motion in a robotic finger	<a href="http://digitkinesis.wordpress.com/">http://digitkinesis.wordpress.com/</a>
13	iFellHelp	A small portable fall detecting device that offers automated distress calls to preregistered contacts when carrier falls	<a href="http://ifellhelp.wordpress.com/">http://ifellhelp.wordpress.com/</a>
14	myHelperBot	myHelperBot is your solution for menial and/or labor-intensive tasks	<a href="http://anselm.ca/myhelperbot/">http://anselm.ca/myhelperbot/</a>
15	HeXV	Search and Rescue Robot to replace rescue worker in rough terrain and confined space	<a href="http://www.eng.uwaterloo.ca/~c2zhu/">http://www.eng.uwaterloo.ca/~c2zhu/</a>
16	Tempo	An interactive music based using the Kinect	<a href="http://mavericklee.com/tempo/">http://mavericklee.com/tempo/</a>
17	iCanWalkNow	A modular, affordable, and easy-to-use add-on to make walkers and rollators safer	<a href="http://icanwalknow.blogspot.ca">http://icanwalknow.blogspot.ca</a>
18	Rehabilitative Exoskeleton	An exoskeleton gait training device for children suffering from cerebral palsy	<a href="http://rexoskeleton.com">http://rexoskeleton.com</a>
19	Juggernaut	Automated Bench press spotter	<a href="http://juggernaut.asgon.net">http://juggernaut.asgon.net</a>
20	Docking Mechanism for Self Re-configurable Robots	Robot docking mechanism which connects and disconnects two or more robots.	<a href="http://fatemehjahed.com/project/">http://fatemehjahed.com/project/</a>
21			<a href="http://robotics.uwaterloo.ca/projects/nasa/chassis">http://robotics.uwaterloo.ca/projects/nasa/chassis</a>
22		The project is an autonomous charging system for Micro Aerial Vehicles for the purposes of enabling continuous autonomous MAV operations	<a href="http://parth.ca/sisyphus">http://parth.ca/sisyphus</a>

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23	REST	REST is a solution to provide consumers with insights into their sleeping habits without needing active user input	<a href="http://chriswu.me/rest/">http://chriswu.me/rest/</a>
24	EyeSound	An assistive device to help visually impaired individuals create a map of their surroundings via audible feedback	<a href="http://oculusinc.webs.com/">http://oculusinc.webs.com/</a>
25	Smart Shower	Smart shower system with autonomous detection, shower head positioning, and temperature control	<a href="http://www.smartshower.ca/">http://www.smartshower.ca/</a>
26	CircIt	Printing custom PCBs has never been easier, cheaper, or quicker for hobbyists and students	<a href="http://www.circprint.weebly.com">www.circprint.weebly.com</a>
27	Design of a Contact Pre-Heating Technology for USIBOR Hot Forming	Design a high temperature die for the purpose of pre-heating USIBOR blanks to beyond their austenitization temperature. This technology has the potential to reduce the heating time by 90% and greatly benefit the hot forming industry.	
32	Cable Handling Device	With a recent push from diesel to electrically powered heavy mining equipment, a design attachment for a front end loader to move said cable that fits the specifications laid out by a client.	