BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Energy

2015/16 Electrical Engineering Capstone Projects

Students	Project	Year	Faculty Advisor(s)	Collaborator
Ygor Gonzalez Clinton Murtagh Omar Mihrig	**Educational Microgrid System:** Microgrids involve the well-controlled interconnection of different power sources and sinks. The project involves creation of a physical demonstration of a Microgrid for use in education of students about Microgrids.	2015/16	Kathy Manson Ali Palizban	BCIT Microgrid Project
Reza Filsoof Travis Szucs Ron Oliverio	**Aids for the Blind:** This project involves providing assistive devices for people with visual impairment to safely navigate within an urban environment.	2015/16	Chris Siu	Telus
Matthew Norris Brandon Nguyen Kuby Shen	**Portable Diagnostic LAMP Tester:** This project involves development of a portable kit for diagnosis of pneumonia in children in low-resource settings.	2015/16	Bob Gill	Nancy Paris (BCIT Tech Ctr)
Nico Dreyer Johnny Le Desmond Wong	**Wheelchair Accident Detector:** The goal for this project is to detect incidents such as tipping and send out calls for assistance that are appropriate to the needs of the person in the wheelchair.	2015/16	Neil Cox	Jaimie Borisoff (BCIT Tech Ctr)
Kyle Richardson Eric Halinen	**Intelligent Climate Management System:** A system to automate and optimize the indoor growth of food plants is being developed.	2015/16	Craig Hennessey	
Samuel Merrick Tony Paquette	**MCC Control Centre:** A standards-compliant motor control centre will be developed that is optimized for use in teaching students about motor control concepts.	2015/16	Hassan Saberi Ali Palizban	
Tyson Nichols Miles Adamson Colin Wierks	**Portable Cold Vaccine Transporter:** This project involves development of a portable cold storage device, perhaps based on Peltier cooling, for use for safe transport of vaccines in low-resource settings.	2015/16	Diane Kennedy	Nancy Paris (BCIT Tech Ctr)
Peter Zhang Thomas Wang	**Multi-Factor Household Lock:** A house door lock will be developed that uses video and other means to maximize convenience and security for the resident.	2015/16	Ed Casas	
Andrew Watson Michael Thomas Phillip Angell	**Personal Real-Time Location System (RTLS) Duress Alarm:** This project addresses the need in many areas of clinical care for generating an alarm and requesting assistance when a patient or staff person needs it. The system being developed will facilitate appropriately prompt and effective responses.	2015/16	Amir Yousefi John Dian	