



School of Energy

2016/17 Electrical Engineering Capstone Projects

Students	Project	Year	Faculty Advisor(s)	Collaborator(s)
Laurence Antalan Jordan Cronier Gurbaz Sehdev	Instrumentation of Charity Donation Bins: We are proposing to instrument new safety features to prevent possible break-ins into the charity clothing donation bins in order to reduce the incidents of theft, injury and possible fatalities. This will also help with safe and efficient management of the bins.	2016/17	Amir Yousefi John Dian	
Wais Arya Ema Baksa Eric Palmer	Pipeline Sensor Network: We are developing a sensor network to monitor pipelines for potential failures in remote areas where physically going to the pipeline is difficult and wireless communication may not be available.	2016/17	David Romalo	
Pooyan Assaran Yazdi Andrew Sinclair	Automated Medicine Dispenser: We are designing an appliance that will help patients stay on their medication schedules and also connect with healthcare professionals to track compliance with those schedules.	2016/17	Neil Cox	
Miguel Balila Charleton Berry Ben Lowe	Wildfire Aerial Detection System: Our goal is to design an aerial surveillance system to assist with forest resource management and provide early detection and warning about anomalies that could grow to become forest fires.	2016/17	Ed Casas	
Timothy Chung Cody Vieira Alex Martens	3D Prosthetic Scanner: We are developing an efficient accurate scanner use with 3D printers in creating prostheses. The scanner will capture an accurate image even if the amputee moves.	2016/17	Diane Kennedy	Silvia Raschke BCIT Make+

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Jon Garmelewicz Andy Ngauv Jack VanEeden	Power Substation Monitoring and Control: We are developing a monitoring and management system for power substations to help power utilities such as BC Hydro better manage their equipment.	2016/17	Jeff Bloemink	Bob Stewart BC Hydro
Kris Ho Johnson Huang Jonathan Wang	Airborne Weather Station (Radiosonde Plus): We are developing a prototype radiosonde for meteorology, forest fire tracking and other high altitude data gathering applications. It will gather useful data for longer periods of time than current radiosondes, and return to a specified location for easy recovery.	2016/17	Bob Gill	
Mark Mendoza Bowen Song Renjie Wang	Remote Patient Monitoring Device: Our project aims to provide a reliable portable system that records biosignals, so healthcare providers can easily monitor patients outside of the office.	2016/17	Neil Cox	Edmond Zahedi Tech Centre