

2010 CEE Capstone Design Project Topics

Geological Engineering

Comparison and design of a permeability test using a mobile centrifuge chamber
Black Thor chromite deposit preliminary cost-benefit analysis
High speed rail line bridge foundation & pier design
Caribou mine tailings dam extension
Hong Kong international airport expansion project progress report
Methodology for synthetic fluid inclusion entrapment
Design of a new methodology of detection of underground voids using attenuation of surface waves
Slope remediation and rockfall analysis at Sternwinder Mountain, Hedley, BC
Gardiner city link main span feasibility proposal
Too Much Gold creek culvert replacement design
The design and implementation of a statistical model for weather analysis and design storm prediction
Design of ground support for emplacement tunnels of a deep geological repository in sedimentary rock

Environmental Engineering

Management Strategy for Agricultural Surface Runoff in the Canagagigue Creek Watershed
Preliminary Design for Seymour Landfill Treatment Wetland
Black Creek Restoration Project
Detailed Study to Address the Future Water Shortage in the Region of Waterloo
Innovative Field Technology for Sampling and Concentrating Microorganisms
EV3 Green Roof Stormwater Management
Grand River Fish Habitat Restoration Project

Civil Engineering

Vessel Construction Detail Design
Structural Design of the Canadian Biennale Pavilion
Strength of the Stud-To-Track Connection for 203 mm Cold Formed Steel Jamb Stud Members
Larswood Creek Residence Project
Building Information Modelling for Rapid Bridge Replacement
Straw Bale: Sustainable Alternative for Go Transit
Glass Pedestrian Bridge Design
Collier Road and Richmond Street Improvements
Design of Composite Bridge Replacement for Bridgeport Bridge
Design of a shoring and falsework system
Conrad Grebel University College academic building expansion
Victorial Whale Museum Structural design and earthquake protection
Integrated study of fish bypass strategies for the lower Grand River
Holetown boardwalk project
Retrofit of a 50 year old house to a low-energy house
Physiotherapy screening process tool
Multilevel parking garage proposal
Detailed Design of Underground house