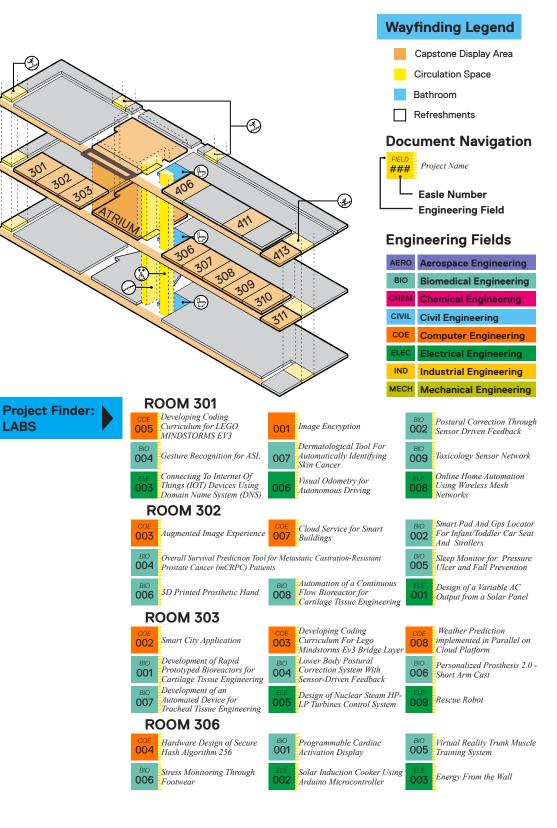


Ryerson Engineering Day

Location: George Vari Engineering Building Date: April 26, 2019



ROOM 307







FLOOR 2 CORRIDOR

	CIVIL NGT Partners: Highway 400 HOV/HO1 Lanes Feasibility Study
CIVIL Residential Subdivision in City of Markham (Group Name: VACHE Engineering)	CIVIL 086 Highway Seven Subdivision
HEM Design of a plant to capture 1 million metric ton/year of carbon dioxide using carbonic anhydride enzyme.	MECH 1 1 1 1 1 1 1 1 1 1
NECH Robotic Arm for 3D Printing	AERO O92 <i>Guided Aerial Drilling (Group A)</i>
WIL Highway 400 HOV/HOT Lanes Feasibility Study	MECH 095 Inline Powder Flow Monitor
MECH 1977 Waste to Energy Tri-generation	MECH Composite Sports Equipment
IECH Waste Segregation and Recyclable Diversion	MECH Investment Casting using 3D Printing
IECH Supermileage Engine Dynamometer	MECH 104 Autonomous Lawn Mower
16CH 06 Electric Dropper Post	MECH 107 Bi-Directional Lock
Backyard Cat/Racoon Deterrent	MECH 110 UltraSonic Clothes Dryer
1ECH Design of a Rigid Frame	MECH 113 Transcritical CO2 based Heat Pump

/HOT	CIVIL 084	Residential Subdivision in City of Markham
	снем 087	Production of 500 metric ton/year of titanium from its ore.
	месн 090	Magnesium Body Panel
lision	AERO 093	Control of a Lab Helicopter with Vision Guided Aerial Drilling (Group B)
	месн 096	Thermoelectric Refrigerator
	месн 099	Electromagnetic Weight Lifting

- Self-Levelling Tripod
- LiDAR Robot Car Machining in a Vacuum
- Press Changeover Re-Design
- 114 Gutter Cleaning Robot

FLOOR 3 CORRIDOR



O17 *Capstone Industrial Systems Design at Loblaw - Joe Fresh* **ND Capstone Industrial Systems Design at** Maple Leaf Sports & Entertainment

Capstone Industrial Systems Design at 023 SickKids

Capstone Industrial Systems Design at 037 Toronto East Health Network

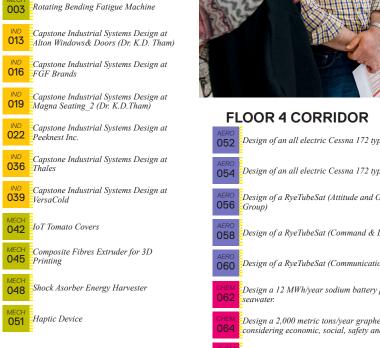
IND O40 Capstone Industrial Systems Design at West Jet Airlines 043 Thermodynamic Cycle for E-Learning

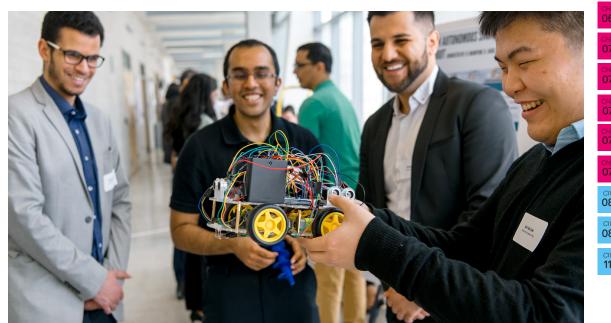
046 Composites for Bones

049 Smart Wallet

115 Condominium Building Design

4 2	Coaxial Cable Core Removal	мес 00
ч 5	FSAE Suspension Bellcrank - 3D printed	INE 01
5	Capstone Industrial Systems Design at Enerlife Consulting	INE 016
3	Capstone Industrial Systems Design at Magna Seating_2 (Dr. M.Wahab)	IND 019
1	Capstone Industrial Systems Design at Metro Distribution Centre	INE 02:
5	Capstone Industrial Systems Design at Sobeys (Dupont)	INE 03
3	Capstone Industrial Systems Design at UNFI	INE 03
4 1	Design of Snake Robot	мес 04
ч 1	Engine Cradle Design	мес 04
ч 7	Vegetronic - Grow Box	мес 04
4)	"Hands-On" Heat Conduction Lab	мес 05







FLOOR 4 CORRIDOR

vpe airplane (Group A)	Design of an all electric Cessna 172 type airplane (Group B)
vpe airplane (Group C)	AERO Design of an all electric Cessna 172 type airplane (Group D)
Orbit Determination	Design of a RyeTubeSat (Simulation, Modeling & Control Group)
Data Handling Group)	AERO 059 Design of a RyeTubeSat (Structure, Assembly & Integration Group)
tion Group)	Design of a RyeTubeSat (Power Group)
y production plant using	CHEM Design a plant for the production of poly(ethylene terephthalate) with capacity of 300,000 tons/year
hene production plant nd environmental analyses	CHEM Merchant hydrogen production facility in Southern or Southwest O65 Ontario, product to be sold by truck delivery, 200,000 kg per year capacity
nes of ammonia per year	CHEM Waste paper recycling facility in the GTA or other location in Southern Ontario
oly(methyl methacrylate)	CHEM District heating for a new housing development in a non-urban location in Canada using a renewable energy supply, approximate annual capacity of 5000 GJ per year
anotubes (CNT)/carbon om emissions of CO2 at oil	CHEM Design of a 180,000 metric tons per year benzoic acid production facility
hyde with purity of 99.9%	CHEM Centralized or decentralized wastewater treatment plant for a storm water flow
a of acrylonitrile with a part of $>$ and the purity of $>$	CHEM Design a plant that is capable of producing 45,000 metric tons analeic anhydride per year
	CHEM Production of 100 metric ton/year of gallium nitride from gallium of 200 metric ton/year of gallium nitride from gallium
ters of shampoo directed	CHEM Design a manufacturing plant that produces 500 Ton/day of Ontario Peach marmalade
	CIVIL Airport Building Extension
restressed Tie Girders	CIVIL High Accuracy Terrestrial LIDAR Data
rsity Ave./ Ave. Rd./Oriole	CIVIL 120 Reconfiguration of University Street

Design of an all electric Cessna 172 typ

Design of a RyeTubeSat (Attitude and C Group)

Design of a RyeTubeSat (Command & I

Design of a RyeTubeSat (Communicatio

Design a 12 MWh/year sodium battery seawater.

Design a 2,000 metric tons/year graphe considering economic, social, safety an

Design a plant to produce 30,000 tonne

Design a plant for the production of pol with capacity of 300,000 tons/year

Design a 12 mega tons/year carbon nar nanofibers (CNF) production plant from sands plants in Canada

Production of 80,000 tons of acetaldehy per year

HEM Design of a process for the production of capacity of 170,000 metric tons per year 99.4%.

Virgin olive oil plant

Design a plant to produce 5 million lite to children market

CIVIL 080 *Tulip Residential Project*

082 Landmark Concrete Arch Bridge w/ Pre

CIVIL Dedicated Bicycle Facilities on Universe Pkwy Corridor