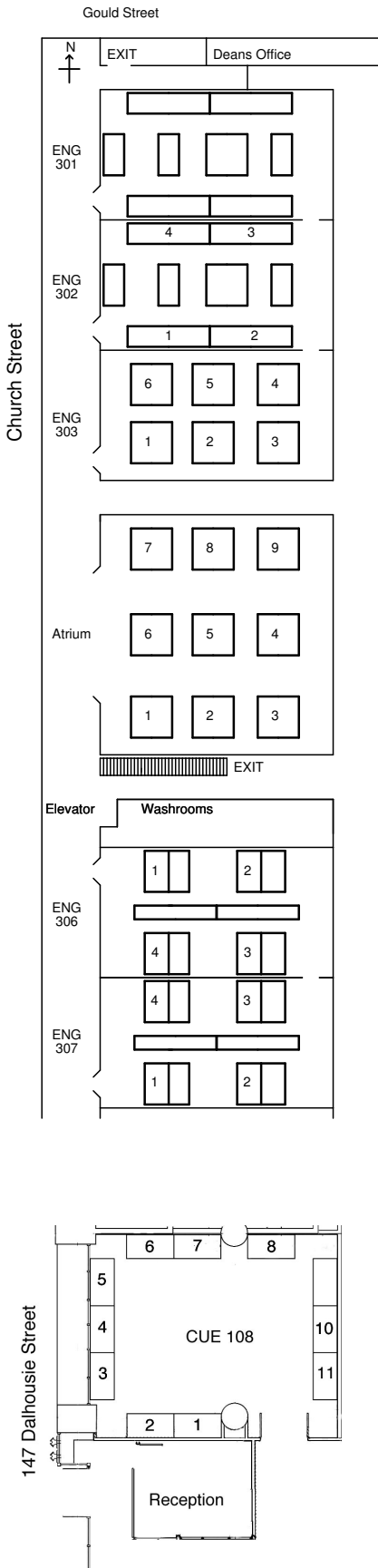


## FLOOR PLANS

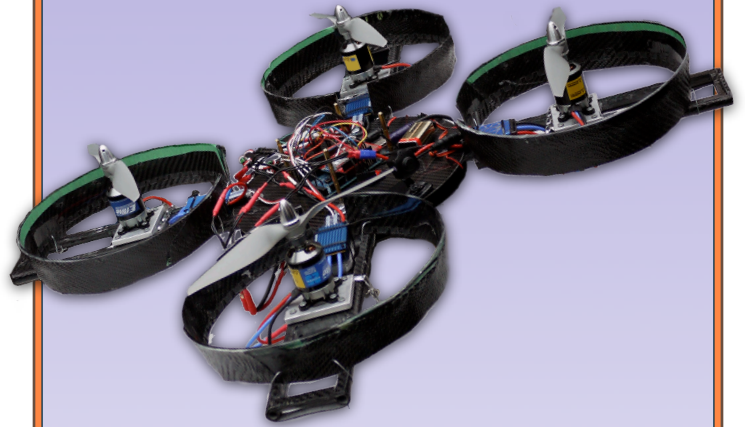


DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

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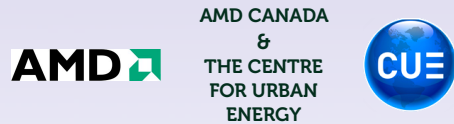
# OPEN HOUSE 2012

APRIL 30<sup>th</sup> • 12:00NOON-5:00PM  
 3<sup>rd</sup> FLOOR LABS • 245 CHURCH ST.  
 1<sup>st</sup> FLOOR LAB • 147 DALHOUSIE ST.



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 CAPSTONE DESIGN OPEN HOUSE

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This programme lists the projects by room number and includes the bench number, the student names, a project category code (refer to the legend) and the faculty supervisor.

Please consult the floor plans, found on the back of this guide, to locate a specific bench in a lab.

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## PROJECT CATEGORY LEGEND

- ⓑ BIOMEDICAL   Ⓒ COMMUNICATION   Ⓜ MICROSYSTEMS  
Ⓟ POWER   Ⓡ ROBOTICS   Ⓢ SOFTWARE



## ATRIUM

- 1 WIRELESS PLUG-IN ELECTRIC VEHICLE MANAGER • *Jovan Filipovic, Shahram Aryanpour, Filip Topalovski* Ⓒ Dr. Fernando
- 2 CAR SECURITY SYSTEM • *Nasim Zoubeiri, Stephen Chui, Ryan Meghdies* Ⓜ Dr. Geurkov
- 3 DESIGN OF REGENERATIVE SERVO FOR PROSTHETIC APPLICATIONS • *Nika Zolfaghari, Jung Soo Kim, Fakhreddine Taleb* ⓑ Dr. Smith
- 4 ARM BIOFEEDBACK SYSTEM FOR PARKINSON'S DISEASE PATIENTS • *S. Seevaratnam, Rana Attalla, Ahmad El-Falou* ⓑ Dr. McConville
- 5 WIRELESS COMMUNICATION OF PERSONAL DEVICES, AUTHENTICATION AND DATA EXCHANGE • *Andrew Otal, Yiming Qian, Guangyu Zhu* Ⓒ Dr. Khan
- 6 PASSIVE WIRELESS E-HEALTH CARD • *Michael Adam Maas, Ramzy Jaber, Edward Rosales* Ⓒ Dr. Yuan
- 7 IPHONE DRIVER ALERTNESS MONITORING SYSTEM • *Igor Ivanecky, Elmer Atagu* Ⓢ Dr. Androutsos
- 8 DESIGN OF A SOLAR POWERED BATTERY-FREE WIRELESS SENSOR NODE • *Baldev Grewal, Roman Nizamuddin, Ravneet Simak* Ⓒ Dr. Fernando
- 9 MULTICHANNEL WIRELESS ECG MONITORING SYSTEM FOR HOCKEY PLAYERS • *K. Magtibay, K. Atwell, K. Mujkanovic* ⓑ Dr. Umaphathy

## ENG 303

- 1 REMOTE VEHICLE TRACKING SYSTEM WITH ACCIDENT ANALYSIS • *Ahmad Khan, Blesson Mathai, Zubin Panchal* Ⓜ Dr. Geurkov
- 2 LOCAL AREA NETWORK WITH INTERNET ACCESS • *Christopher Avenir, William Bradley, Adam Nahous* Ⓜ Dr. Guerkov
- 3 A 3D HEART MODEL FOR CARDIAC ACTIVATION DISPLAY • *Peyman Moeini, Navid Zohouri, Zed Klaf* ⓑ Dr. Umaphathy
- 4 TRAFFIC LIGHT CONTROL SYSTEM • *Fahimeh Hosseini, Nazanin Yazdian* Ⓡ Dr. Geurkov
- 5 CREATING 3D IMAGES USING A 2D CAMERA • *Walid Ibrahim, Mohammed Aghdam, Omar Al-Safi* Ⓢ Dr. Androutsos
- 6 CONTENT SWITCH • *Talha Pervez, Arsalan Rafiq, Salman Jan* Ⓜ Dr. Jaseemuddin

## ENG 302

- 1 TECHNOLOGY ENHANCEMENTS IN TREATING DEPRESSIVE DISORDERS USING MAGNETIC STIMULATION • *Iman Kalaji, Hagir Elhadari* ⓑ Dr. Umaphathy
- 2 TRACKING OF SPACE OBJECTS USING RYERSON PICO- AND FEMTO-SATELLITES • *Ahron Train, Jyotsna Jillepalli, Nour Alli* Ⓜ Dr. Kumar
- 3 INTEGRATED REMOTE POWER SYSTEM MONITOR • *Steve Selladurai, Kajendran Ramachandran, Sharmila Mahasivam* Ⓒ Dr. Anpalagan
- 4 SMART CELLPHONE INTERFACE FOR THE PHYSICALLY CHALLENGED • *Romina Forouzanfar, Najmeh Razfar* ⓑ Dr. Kassam

## ENG 306

- 1 MOBILE PHONE QOS METER • *Yi Huang, Azadeh Sadjedi, Yash Gandhi* Ⓒ Dr. Anpalagan
- 2 TREMOR DATA-LOGGER FOR PARKINSON'S DISEASE • *V. Sukumar, S. Syed, J. Jeyaratnam* • ⓑ Dr. Kassam
- 3 MULTI-CORE NETWORK-ON-CHIP SYSTEM FOR MULTIMEDIA APPLICATIONS • *Tsholofelo Bafana, Raul Castellanos, Gopolang Tlhaga* Ⓜ Dr. Khan
- 4 DIGITAL INTERFACE FOR CARDIAC ACTIVATION MAPPING SYSTEM • *Kevin Khan, Karol Pawlina, Lorenzo Dimagiba* ⓑ Dr. Umaphathy

## ENG 307

- 1 TRAFFIC LIGHT VEHICLE DETECTION AND VOLUME CONTROL • *O. Ahmad, M. Lozier, N. Mons* Ⓜ Dr. Geurkov
- 2 DESIGN OF INTELLIGENT WIRELESS LINKS FOR HOSPITALS AND AIRCRAFT • *Thavisha Assalaarachchi, Theepan Karunanathan, Ragavan Kathiravetpillai* Ⓒ Dr. Fernando
- 3 OPTICAL WIRELESS LAN • *Tsz Kin Mui, Askhat Gabdullin, Calvin Lee* Ⓒ Dr. Fernando
- 4 IN-HOME HAPTIC FEEDBACK TRAINING FOR ANKLE REHABILITATION • *B. Battaglia, M. Nassery, A. Brukson* ⓑ Dr. McConville

## CUE 108

- 1 WIND ENERGY GENERATION FOR SMART HOME • *Syed Umer Asif, Hassan Issa, Amoglang Moemba* Ⓟ Dr. Wu
- 2 DISTRIBUTION SYSTEM MODELING AND RELIABILITY ASSESSMENT • *A. Vakil, A. Ahmed, M. Matadar* Ⓟ Dr. Xu
- 3 SOLID STATE POWER CONTROLLER • *Mitesh Patel, S. Patel, Omar Mirza* Ⓟ Dr. Xu
- 4 SMALL WIND ENERGY CONVERTER FOR SMART HOME • *Ling Zhao, Mohammed Nihar, Nabil Hasan* Ⓟ Dr. Xu
- 5 HIGH EFFICIENCY PV MICRO-INVERTER FOR SMART HOME • *E. Ashwood, O. Boakye, S. Makvand* Ⓟ Dr. Yazdani
- 6 BATTERY CHARGER FOR PLUG-IN ELECTRIC VEHICLE (PHEV) FOR SMART HOME • *Negar Honarmand, Ali Nejad, Hamoun Hayati* Ⓟ Dr. Wu
- 7 SMART HOME MICRO-GRID OPTIMIZATION • *Alex Skidelsky, Leon Chan, Rawie Laborce* Ⓟ Dr. Venkatesh
- 8 THREE-PHASE SINGLE-STAGE GRID TIED PV SYSTEM • *Nirav Patel, Raveenthan Thambirajah, Tissan Ravindra* Ⓟ Dr. Yazdani
- 10 PHOTO-VOLTAIC ARRAY SIMULATOR • *Herman Cheung, Christopher Loschiavo, Jerry Thayilchira* Ⓟ Dr. Yazdani
- 11 GRID SIMULATOR • *Abdi Abdirahman, Ahmed Abd, Stephen Garcia* Ⓟ Dr. Xu