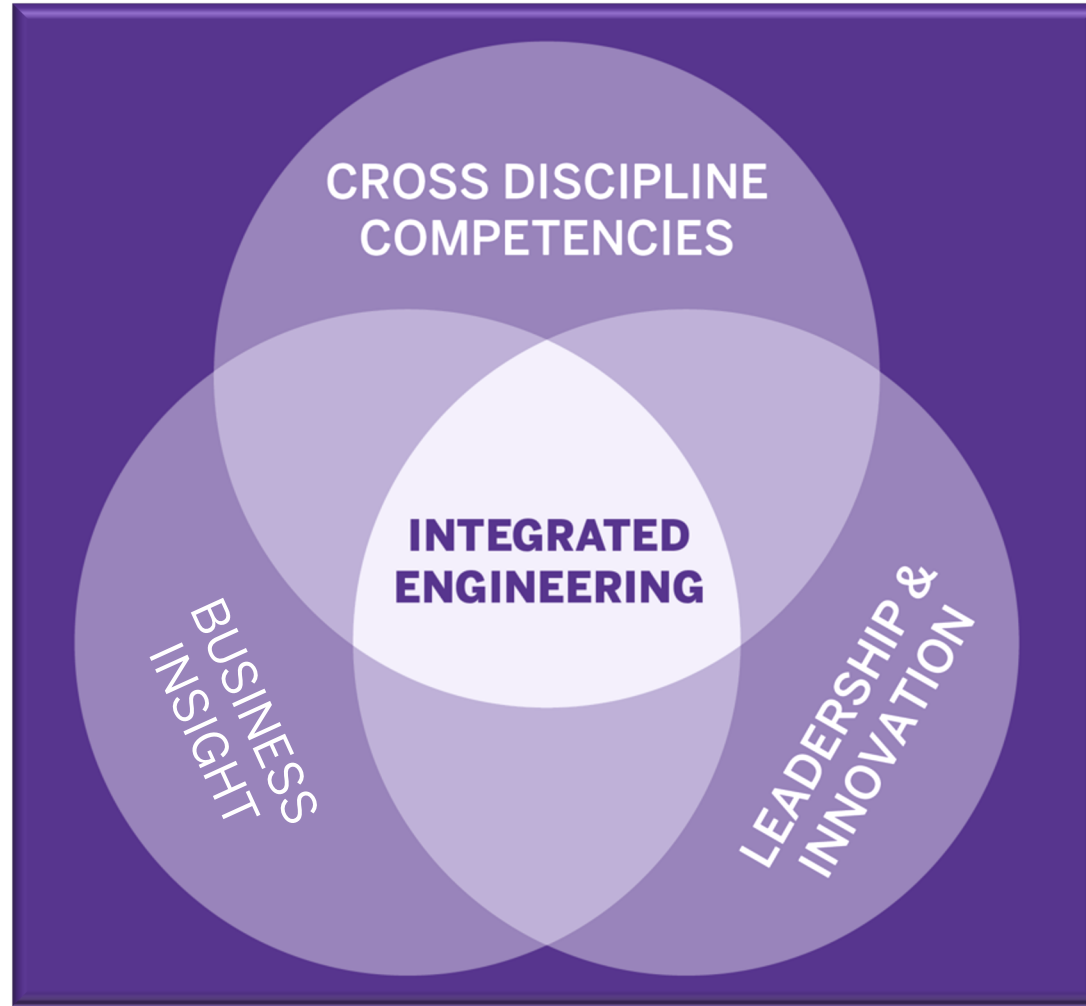


Integrated Engineering



“T-shaped people have more attachment points. They are more likely to make a contribution to a team, and build on the ideas of others. Part of our recruiting and hiring process is looking for T-shaped characteristics”.

- Tom Kelley, IDEO

What is Integrated?

Breadth of Engineering and Business Knowledge

Electrical /
Computer

Chemical

Civil

Mechanical

Leadership

Entrepreneurship

Design
Thinking



Technical
and Non-
Technical
Electives



Specialization
through
Electives

The “T-Shaped Engineer”

<http://i.imgur.com/HJbpxLN.jpg>

Integrated Works Well for Students Who...



- *Have career interests that cut across traditional boundaries*
- *Look forward to leading a tech-based startup*
- *Want to pair Engineering and Ivey*
- *Have a passion to lead innovation and its application*
- *Can look at problems differently, using lateral thinking and non-traditional tools*

Why Integrated Instead of Other Programs?

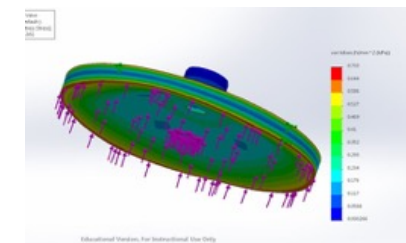
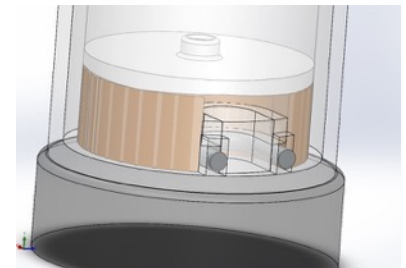
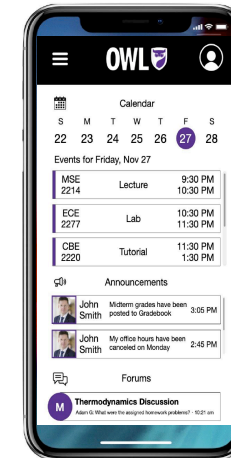
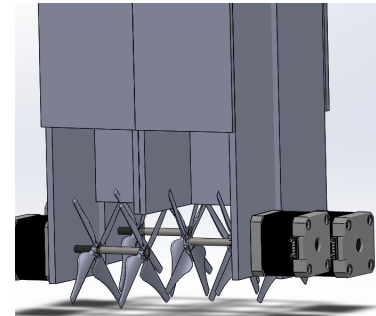
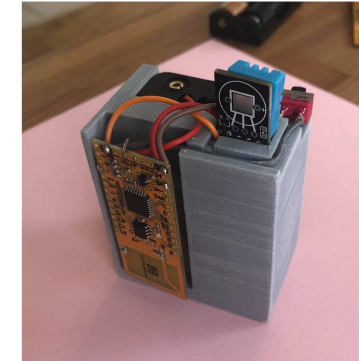
World needs broadly capable engineers who excel in *leadership* and applying knowledge from *multiple fields*

Unique in Canada, case-based innovation and leadership courses help develop skills in *critical thinking* and *navigating ambiguity*

Prepares graduates to fill technological *innovation gap* in almost any industry

Project-Based Learning is Core

ES 2297	System engineering design project of team's choosing
ES 3330	New venture plan
ES 3331	Product design and prototype
ES 4499 Capstone	Prototype an innovative product of team's choosing and create launch plan



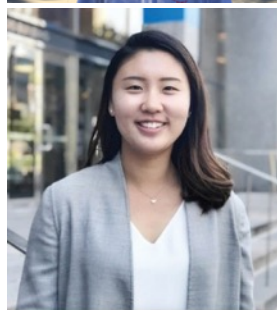
Where do Integrated Graduates Work?

In past 6 years:

- Even with pandemic, all but one IE graduates that want jobs have jobs
- A few pursued further degrees (Graduate Studies, MBA, Ivey MSc)
- 3 started their own ventures
- Employed:
 - 58% working in engineering
 - 42% applying engineering skills in business, finance, operations, etc.



Josh Reding - 2nd
Founder of MakerBars | Labs Batch 3 Founder |



Ben Jurjevich, Integrated 2016 Project Manager, BYD Auto

BYD Auto: Electric cars, trucks and buses

- Fleet sales, bid and proposal
- Co-managed BYD's US electric charging network
 - Personally installed first 14 stations!
- Managed UPS delivery truck EV retrofit
- Managed homologation of BYD heavy duty trucks for US & Canada



Haida Liu, Integrated 2016 Project Manager, Kinectrics

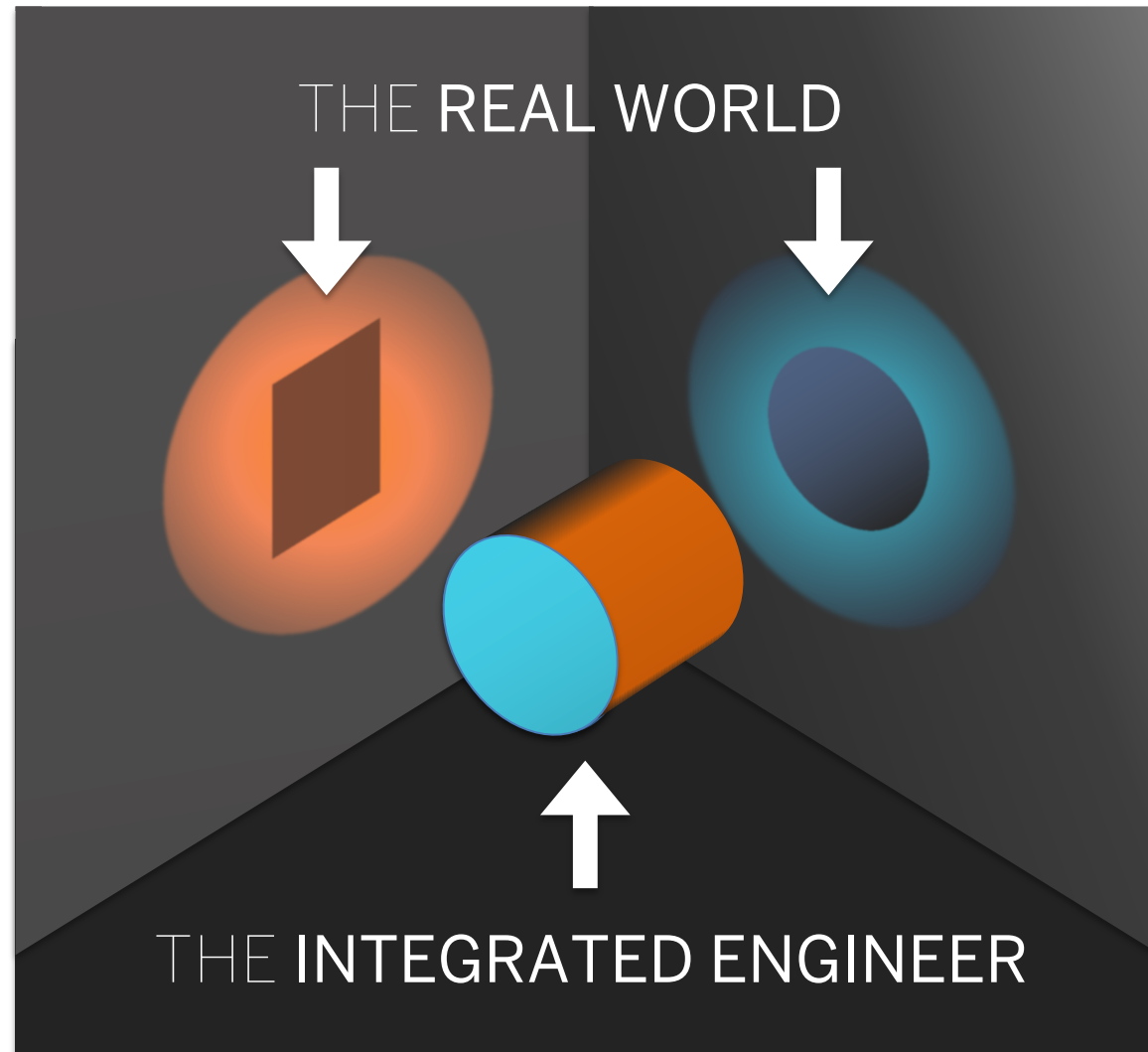


Kinectrics:
Testing, Inspection &
Certification for
Electricity Industry

- Project Manager
 - Customer interface
 - Test planning
 - Test management
 - Reporting
- Engineer (EIT)/Scientist
 - Line Asset Management/
Transmission &
Distribution Technologies

THE INTEGRATED ENGINEER

Not a square
peg in a world
of round holes



A multi-shaped
peg in world of
ever-changing
holes

Integrated Student Club:
western.ieclub@gmail.com



Don Uffen, Director Integrated Engineering, duffen@uwo.ca
John M. Thompson Centre for Engineering Leadership and Innovation,
Amit Chakma Engineering Building, Room 2410B