

INDUSTRIAL ENGINEERING

Industrial engineers help us to work smarter.

As an industrial engineer, you'll develop analytical vision that will allow you to see processes in a whole new way. Excellence and efficiency will be your areas of expertise. By assessing a wide range of factors—such as technology, time, staff, environmental concerns, safety, and cost—you will create a road map for doing things better.



“You may not think about it when you go to a theme park, but every aspect of it is engineered with the guest in mind.”

Jonathan Khou, Industrial Engineering '15
Workload and Staffing Manager, Walt Disney Company

Putting it together

Last year, Brady Middleton provided Chicago Public Schools students in underserved communities with a hands-on kit designed to help them learn about the Internet of Things, filled with instructional videos and 21 electronic components to play with.

To create the kits—a product of his startup business, Think773—Brady called on his UIC major in industrial engineering. “The kit is an electrical engineering product,” he explained, “but I’m doing the industrial engineering when it comes to the business and the numbers, the operations, and working with people.” Brady is coordinating with manufacturers in China and managing his own quality control and distribution. Courses such as IE 380 Manufacturing Process Principles and IE 446 Quality Control and Reliability can help.

“The IE department here is where it’s at,” Brady said. “It’s the place to be. For me, it’s everything.”

Visit mie.uic.edu to learn about course options, student activities, and more.



CREATIVITY IN ACTION

For our annual senior design showcase, the UIC Engineering Expo, industrial engineering students have created:

- ▶ A plan to improve tool room operations for United Airlines at O'Hare
- ▶ An app to optimize freight flow at a YRC Freight distribution center
- ▶ A system to collect Metra fares via RFID technology
- ▶ A business intelligence dashboard for supply chain management at Littelfuse, Inc.

With an industrial engineering degree, you might:



Manage supply chains of raw materials sourced from all over the world



Devise quality controls to ensure that products meet customers' needs



Provide project management expertise to complete initiatives on time and on target

