

# 2018 Darien Center

## TECHNOLOGY, BUSINESS AND LEADERSHIP

July 14-Aug 11

Tues – Thurs – Saturdays (first day is July 14)

### For High School Students

Junior High School Students may join the Apprenticeship Program

Cost \$200 (scholarships available upon request)

**Classes:** Engineering and the product cycle: *from concept to prototype, to a commercialization.*  
Business: *how to cost the product, establish procurement, manufacturing, support.*  
Marketing, Sales and branding: *presentation, promotion, understanding the market, customer needs, competition.*

**Place:** Darien Study Center  
7800 S Cass Ave, Darien, IL 60561

### Saturday

9:00am Work Team Review  
9:15am Class/Workshop I – Engineering  
9:45 Class/Workshop II – Business  
10:15 Class/Workshop III – Marketing  
10:45am Concurrent Work Projects  
Engineering, Business, Marketing  
11:45am Talk  
12:00pm End

### Tues and Thursday

7:30pm Work Team Projects  
Engineering, Business, Marketing  
8:45pm All Hands Get Together  
and Review  
9:00pm End

### Instructors:

Dr. William de Ojeda, WMI, Director of Engineering  
Audrius Brazauskas, Senior Mechanical Eng. Student at @ IIT  
Gerry Harper, South Shore Hospital, COO, Retired  
Carlos Fernandez, Business Director, Hardscape Design



The Darien Center sponsors programs emphasizing character development, leadership, and service. We foster the personal qualities that enable men to exercise a positive influence in the world and to integrate their faith, study, work, friendship and citizenship. The spiritual dimension of the activities is entrusted to the Catholic Preature of Opus Dei.



July 14<sup>th</sup> – August 11<sup>th</sup>  
2018



## 2018 Darien Center TECHNOLOGY, BUSINESS AND LEADERSHIP

Student Name:	_____	Grade:	_____	GPA:	_____
Address:	_____	School:	_____	Emergency Contact:	_____
	_____			Phone number:	_____
Father's name:	_____	Mother's name:	_____		
Phone number:	_____	Phone number:	_____		
Email	_____	Email:	_____		

\_\_\_\_\_  
Student signature

\_\_\_\_\_  
Parent Signature

Mail Application to:  
Darien Study Center. 7800 S Cass Ave, Darien, IL 60561. Attn: William de Ojeda

Application Form Deadline June 1st  
Plan for interview (in person or by phone)  
Response to applications will be announced on June 15th

## Previous projects have included:

- 2016 **Electrification of Bike:** project involved the installation of motor and battery on a bicycle, designing and installation of a controller to monitor torque and assist biker for optimum performance and assistance.
- 2017 **Industrial flow meter:** design a flow meter to measure the flow from a pump. A useful device uses a flow column, electric valve and pressure sensor to measure flow with assistance of controller. It can be used in variety of applications ranging from rain fall estimate to measuring flows in a fuel pump!
- 2018 **Project to be announced** at beginning of Summer Program!

## Scope:

- ✓ Learn from and work with experts in a variety of fields of commercial products
- ✓ Get exposure to the creative aspects of business and technology
- ✓ Advance both your personal skills and your ability to work on teams
- ✓ Take advantage of talks to help you grow in maturity, industriousness, spirit of service, and desire to grow in personal character.

### Are you in or onto College?

*Do you want to be an instructor?  
Do you want to be a team leader?*

*Do you want to earn college credit and references?*

*This activity can help you catapult your career!  
Contact us to find out how you can be part of it.*

### Are you in Junior HS?

*If you are in Junior High and highly motivated you may apply to the apprenticeship program.*

*Four younger students will be able to participate as a team in the activity.*

### For more information call or email:

Willy de Ojeda , PhD, PE  
773-909-5450 (M)  
wdeojeda@gmail.com  
Darien Center  
630-541-8769



## 2018 Darien Center TECHNOLOGY, BUSINESS AND LEADERSHIP

Student Name: \_\_\_\_\_

School: \_\_\_\_\_ Grade: \_\_\_\_\_

Tell us a little of yourself, your hobbies and interests.  
How do these fit with the "interest" selection above?

### Indicate your interest

Use the following ranking

- 1 = highest
- 2 = medium
- 3 = lowest

Engineering

☐

Business

☐

Marketing

☐

What are your plans for college and beyond? Why do you think this course may help you in your professional development?

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Can you commit to attending the 5 Sat sessions? If not please explain why. \_\_\_\_\_

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