



## Innovative Precision Product Design

June 26 – 30, 2017

<b>Monday</b>	
8:30 – 9:00	Introductions – Classroom
9:00 – 10:00	Topic 1 – <a href="#">Design is a Passionate Process</a> Topic 2 – <a href="#">Creating Ideas</a>
10:00 – 10:30	Break – Coffee provided
10:30 – 12:00	Topic 3 – <a href="#">FUNdaMENTAL Principles</a> and basics of Error modeling Basics of Kinematic Couplings & Exact Constraint Design
12:00 – 1:00	Lunch – Pair up, Eat in groups and sketch your Linear Slider design
1:00 – 2:00	Hobby Shop Introduction and Safety Training
2:00 – 5:00	Begin fabrication and glue up of your Sliders – Hobby Shop Preparation for Kinematic Coupling
	Go explore Boston!
<b>Tuesday</b>	
8:30 – 9:00	Open discussion – Classroom – Coffee provided
9:00 – 12:00	Topic 8 – <a href="#">Structures</a> Topic 9 – <a href="#">Structural Conn. &amp; Interfaces</a> <a href="#">Omax</a> Abrasive Waterjet Machining Center Design Case Study
12:00 – 1:00	Lunch
1:00 – 3:30	Complete fabrication of your Sliders – Hobby Shop Begin Kinematic Couplings
3:30 – 5:00	Shop Tools Structural Analysis – Hobby Shop
6:00 – 8:30	<b>Special Event</b> – Course Dinner
Homework	Plan to present your problem (a challenge that you are facing at work) Identify functional requirements, Begin to create a draft FRDPARRC
<b>Wednesday</b>	
8:30 – 9:00	Open discussion – Coffee provided – Classroom
9:00 – 12:00	Topic 4 – <a href="#">Linkages</a> – Classroom Topic 6 – <a href="#">Screws</a>
12:00 – 1:00	Lunch
1:00 – 2:30	<a href="#">Error Modeling</a> – Classroom
2:30 – 5:00	Complete Kinematic Couplings Continue Shop Tools discussion as needed



<b>Thursday</b>	
8:30 – 9:00	Open discussion – Coffee provided – Classroom
9:00 – 12:00	Topic 10 – <a href="#">Bearings</a> <a href="#">Error Budgets</a> – Classroom
12:00 – 1:00	Lunch – forage for yourself!
1:00 – 3:00	Group problem solution exercise Coffee provided
3:00 – 5:00	Present your problem on the board
<b>Friday</b>	
8:30 – 9:00	Open discussion – Coffee provided – Classroom
9:00 – 11:00	Continue problem discussion / special by request topics
11:00 – 12:30	Staff evaluate solutions presented and close the loop with earlier
12:30 – 2:00	Lunch, Awards & Closing
2:00 – 5:00	Staff available for individual consultations