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LISTEN.  
THINK.  
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## Introduction to Motion Analyzer Design Software

# Goals of Lab

- Learn how to quickly evaluate a variety of machine design options while exploring some of the new tools in the Motion Analyzer mechatronics design software.
- This lab exercise demonstrates the following concepts:
  - Tuning Simulator helps mitigate costly design changes and allows for faster commissioning
  - Integration with SolidWorks design software allows for consistency in complex inertia and torque calculations throughout the design process
  - Just Quote mode lets you quickly create a Bill of Materials without having to open the Motion Control Selection Guide.

# What You'll Do

- You will see how easy it is to evaluate a variety of machine design options by doing the following:
  - Explore how to create a motion profile using Motion Analyzer
  - Learn how to export Motion Analyzer profile data to RSLogix 5000
  - Understand how to import CAM profile data from RSLogix 5000 into Motion Analyzer
  - Analyze why a rotary direct drive motor may outperform a low inertia servo motor
  - Interface with SolidWorks to size and select a motor and a drive



# The Equipment

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- Computer
  - Motion Analyzer Version 5.2
  - RS Logix 5000 Version 19
  - SolidWorks 2011 Service Pack 4

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Questions?  
Comments?  
Concerns?

Please ask your lab instructor.