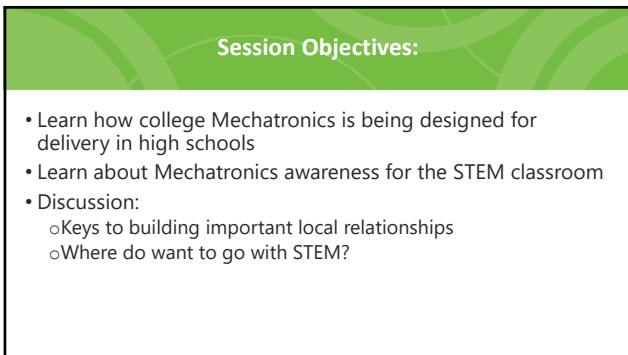




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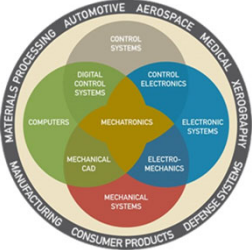
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3

Mechatronics is...

- The integration of computers, electronics, mechanics, and controls
- aka AUTOMATION




4

From the college to the high school classroom

- NSF project to engage "pilot" high schools with Mechatronics
- Engaging students with hands-on lab activities
- Providing schools with cost effective text materials
- Developing HS educators knowledge base

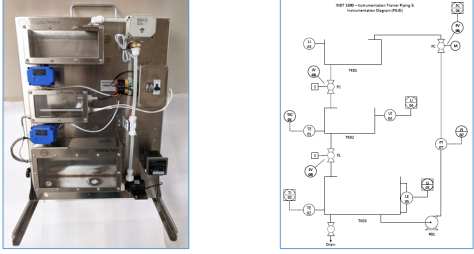
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Concepts of Electronics I – hands-on trainer



6

Introduction to Instrumentation – hands-on trainer



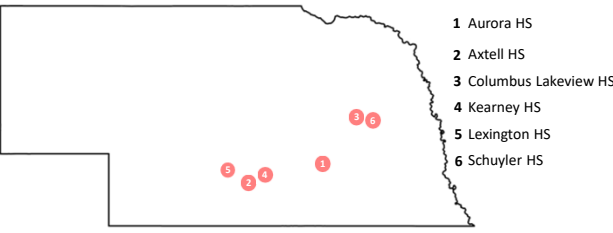
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Open Educational Resources

- OER text materials with Creative Commons licensing
 - Electronics - <https://www.allaboutcircuits.com/textbook/>
 - Instrumentation - <http://www.ibiblio.org/kuphaldt/socratic/sinst/>

8

Nebraska High Schools “piloting” Mechatronics



- 1 Aurora HS
- 2 Axtell HS
- 3 Columbus Lakeview HS
- 4 Kearney HS
- 5 Lexington HS
- 6 Schuyler HS

9

Discussion of STEM connections

- Science
- Technology
- Engineering
- Math

10

Discussion on Building STEM in your school

- Where do you want to go with STEM?
- Building business-education relationships

11

Questions / Comments

12

Contact Information

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