**Project Lead The Way**

- National Organization
- Partnering Public Schools, Higher Education Institutions and the Private Sector
- Increase the quantity and quality of engineers from our education system.

Presented: 11/1/2006
Project Lead The Way
Moline High School

- Bill Carlough at Moline High School
- Pre Engineering Curriculum
- Accelerated Classes
- Introduction to Engineering Design (05/06)
- Principles of Engineering (new 06/07)

Future Courses
- Computer Integrated Manufacturing (07)
- Digital Electronics (08)

Presented: 11/1/2006
Drafting 1,2,3,4,5,6

- Mechanical Drawing
- Multi-views
- Isometric Pictorials
- Sectioning
- Assemblies
- Computer Aided Drafting & Design
- Architecture

Presented: 11/1/2006
Introduction To Engineering Design

- Project Based
- Detailed Sketching
- Computer Aided Design
- 3-D Modeling
- Product Development
- Engineering Careers
- Portfolio Development

Presented: 11/1/2006
Drafting Lab

Presented: 11/1/2006
Sketching to CAD
Puzzle Cube

Presented: 11/1/2006
Desk Organizer
Desk Organizer
Concept to Product

Presented: 11/1/2006
Reverse Engineering

Presented: 11/1/2006
Precision Measuring
Principles Of Engineering

- Utilizes the Current Tech Lab
- Engineering Disciplines
- Mechanical systems
- Electrical Systems
- Strengths of Materials
- Thermodynamics
- Statics & Dynamics
- Project Based w/ Computer Interfacing

Presented: 11/1/2006
Computer Integrated Manufacturing

- Coordinates CAD with CNC Machining
- Utilizes the Drafting Lab & Machine Shop
- Programming Machine Operations
- Uses Cartesian Plan Axis: X, Y, Z
- Study of Manufacturing Methods
- Characteristics of Materials
Digital Electronics

- Electrical & Electronic Circuits
- Calculation of Parameters
- Construction of Circuits
- Testing & Troubleshooting
- Project Applications

Presented: 11/1/2006
Partnerships

- Community
- Businesses
- Engineers
- Parents
- Colleges

- Input, Mentoring, Guidance, Support