

Roadmap to Mechatronics

Industrial Automation

FESTO

**Hardware and
Software to teach:**

- PLC Programming
- Fluid Power
- Automation Processes
- Robotics
- Mechatronics



**Create an Effective
Learning Environment**

www.festo.com/uslearningsystems

Mechatronics

Teach Mechatronics...from technology f
to complete factory automation.

○
Start

**PLC
Programming**

EasyPort



Hardware: EasyPort

Software: EasyVeep

Fluid Power

Training Pack



Hardware

- Training P
- Pneumatic

Software

- FluidStudi
- FluidSIM®

Fundamentals

Power Packages

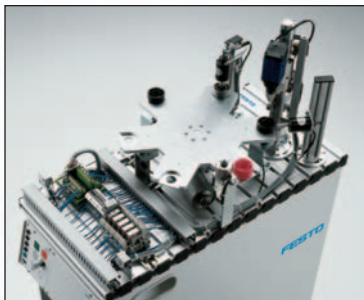


Power Packages Electrical/Hydraulic

to®

Automation Processes

MPS



Hardware

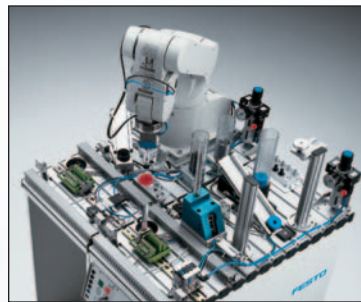
- MPS Work Stations

Software

- Mechatronics Assistant
- COSIMIR® PLC

Robotics

Robots



Hardware

- Robots
- Robot Workcells

Software

- COSIMIR® Educational
- COSIMIR® Industrial
- COSIMIR® Professional

Mechatronics

FMS/iCIM



Hardware

- Conveyor
- Robots
- Machining Center

Software

- COSIMIR® Factory
- COSIMIR® Control
- COSIMIR® InTouch™

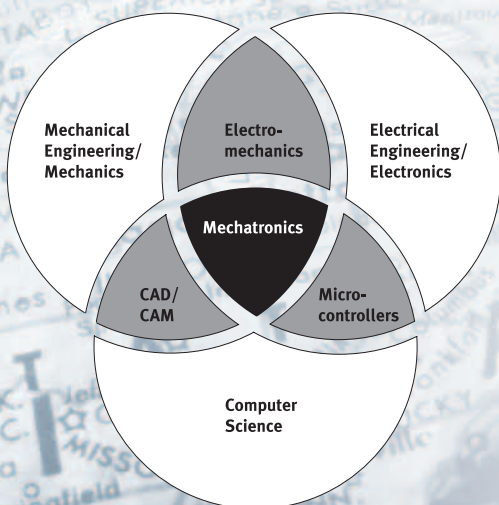
Mechatronics

Mechatronics is the synergistic combination of mechanical engineering, electrical engineering, electronics, information technology and systems thinking, utilized in the design of products and automation processes.

Festo Learning Systems products provide the ideal environment for Mechatronics training. Our broad array of products including hardware, simulation software, web based training products and a broad array of curriculum, combine to provide the educator with the most comprehensive industrial based training programs available worldwide.

Technical training objectives include the ability to:

- Analyze functional relationships in mechatronic systems
- Manufacture mechanical components
- Follow information and energy flow in electrical, pneumatic and hydraulic sub-systems
- Plan and organize work flow
- Commission, troubleshoot and repair mechatronic systems
- Communicate using industrial network protocols, including DeviceNet™ and ProfiBus



Industrial Automation

Mechatronic skills and Festo automation products are utilized in production applications throughout the world.

Industrial Applications



Automotive



Food and Packaging



Semiconductor



MPS® won the Worldidac Award in 1998, 2000, 2002



Paper and Printing



Pharmaceutical



Process Control



Industrial Processes



Design and Engineering



Assembly and Production



Quality and Inspection



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