

3D SENSOR FEATURING COGNEX DESIGNER CONTROLLER



LOCATION	PRICE	DATES
4830 Azelia Ave N, Minneapolis, MN 55429	\$1495	February 5 th -8 th

SUMMARY

The 3D Sensor Featuring Cognex Designer class teaches the standard and advanced topics of how to configure a 3D vision application with the Displacement Sensor family of products using the Cognex Designer programming environment which includes a built-in HMI user interface.

This class gives new Displacement Sensor users an overview of the hardware and software used by Cognex Designer to quickly and efficiently program the system for 3D vision inspections. With the focus on understanding 3D image acquisition as well as core 2D and 3D tools, students learn to walk through the process of setting up a vision application using programming best practices within the Cognex Designer interface. Students will learn to use advanced techniques and best practices to accomplish vision application tasks like controlling user access, using data storage, and designing HMIs.

The class will expose students to VisionPro tool knowledge, C# scripting, flow diagram component placement and integrated HMI creation so students can focus on their vision solution needs.

COURSE CONTENT

1. Hardware & Image Acquisition
2. Software & Scripting Blocks
3. PMAAlign & Fixturing
4. Building an HMI
5. 3D Vision Tools
 - a. Plane Estimator
 - b. Height Estimator
 - c. Volume Calculator
 - d. Cross Section
6. Components
 - a. Timers
 - b. Shift Registers
7. Discrete Inputs & Outputs
8. Maintenance & Deployment
9. SQL Databases & Image Recording
10. User Access Control
11. Alarms & Recipes
12. Scripting Control
13. Implementing Cognex Functions
14. Plug-ins
15. Final Project

PREREQUISITES

Familiarity with Microsoft Windows environment is required. Previous C# scripting experience recommended. A basic C# programming help guide will be provided for certain class topics.


SCHEDULE

Starts: 8:30am on Tuesday, February 5th

Ends: 3:00pm on Friday, February 8th

REGISTER NOW

www.automationinc.com/events

 **Questions? 763-571-3336**

