

A Technical Course on

# MACHINE VISION

Machine Vision (combination of camera and processing technologies) is a need of the hour and reliable solution in manufacturing and production industry to improve quality and throughput with measurable return on investment.

*Machine Vision course is designed to provide the Experimental approach to learn MACHINE VISION with the company's experience gained in more than 20 years of solution selling in the field of Imaging and Vision.*

The course is designed

- with a view to provide an overall experience of designing and using a machine vision system (need of the hour) towards different Industrial application projects
- to give professional training on machine vision to Students of Engineering Disciplines in Engineering Colleges and Universities
- to provide knowledge on Rapid Prototyping and Real world Development

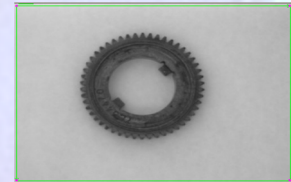
The course will cover all the topics of Machine Vision including hardware, software, optics, Lighting, image processing, imaging algorithms, flow, design aspects in terms of technical and commercial angle, control, communication, color process etc.

The course will also cover programming in Machine Vision using C++, C# etc. along with GUI based prototyping.

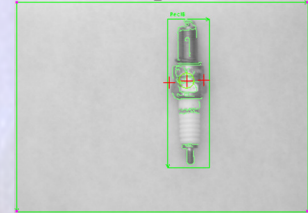


**Industrial  
Automation**

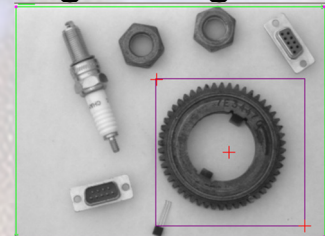
## Presence / Absence



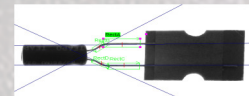
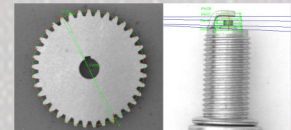
## Locating



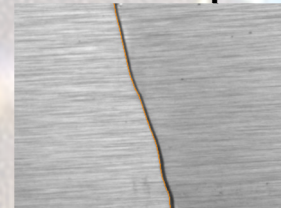
## Segmenting



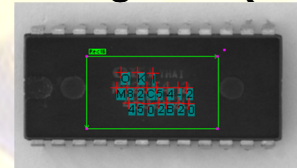
## Measurement



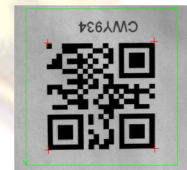
## Surface inspection



## Optical Character Recognition (OCR)



## Barcode





## Industry experience on Desktop

The course is designed to be very interactive with concepts explained with relevant experiments. The experiments are designed to mimic the industrial scenario on desktop.

## Benefits to attendees

- The ability to be a contributor in identifying potential machine vision applications and guiding their implementation.
- Familiarity with how machine vision systems operate and the components and Insight into available techniques for extracting information from images and interpreting the information.
- Knowledge of the pitfalls in applying machine vision and how to avoid them

The attendees can be from any engineering discipline completed or pursuing the degree especially from Mechanical Engineering, Electronics and Computer Science

***"Learn, Understand, Try & Implement  
- key words of this course".***

***A first step towards***

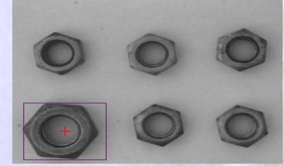


***"Make in India"***

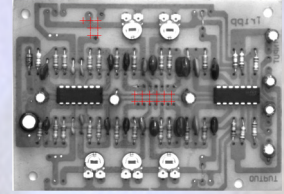
***For manufacturing excellence in***

***"Automation and machine vision"***

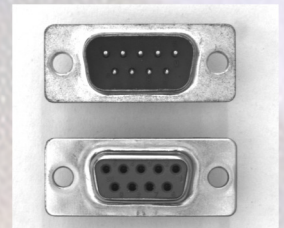
## Sorting



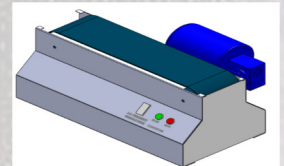
## Pattern Matching



## Alignment



## External I/O Control



## Color Classification



## CONTACT

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