

# Computer Vision to detect defects in PCB

Inspecting printed circuit boards (PCB) is one of the most important aspects of production. With the rise of electronic appliance demands every day, the demand for higher quality components is rising.

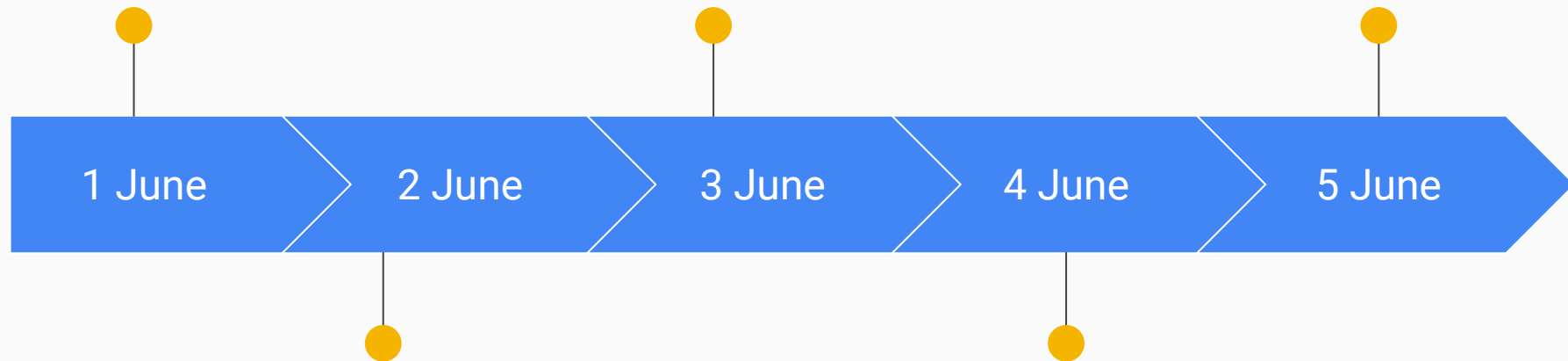
This is where **Computer Vision** can provide an **efficient alternative** for commercial **automated optical inspection** to assist small scale manufacturers to do an automated inspection.

Essentially, **deploying** it to web for remote access.

- Surfing open-source
- Discovering resources
- Finding relevant dataset
- OpenCV

- Numpy
- Pandas
- Image manipulation

- Parameter Tuning
- Canny Edge Optimization



- OpenCV Course
- Images as functions
- Processing images

- OpenCV Pipeline
- Sobel Edge Detection Algorithm
- Canny Edge Detection Algorithm