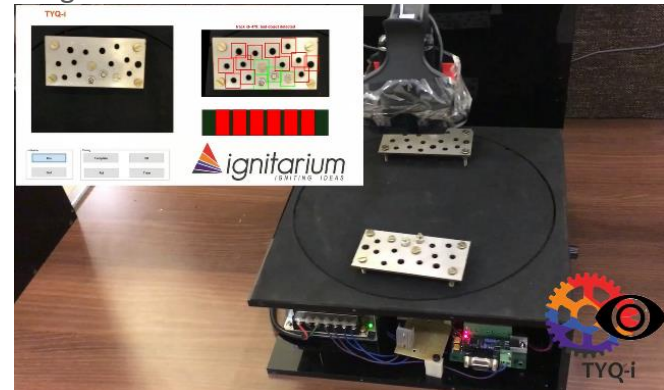# Case Study

Missing Nuts & Bolts

Solution Scope

- Develop a solution for detection of missing nuts & bolts

- Target hardware: Low cost embedded platforms with hardware accelerators (GPU, DSP, custom HW)

Lab Setup Emulating Conveyor Belt

Highlights

- Custom neural network and algorithms to achieve higher accuracy and speed

- Uses consumer grade webcam for image sensing

- Requires only few hundred images during training

- Incremental training of neural network with data augmentation

Detecting Missing Nuts/Bolts in Real Time

ignitarium
Spark On.

THANK YOU

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