



هاكاثون  
الصناعة  
Industrial  
Hackathon

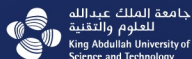
SIDF  
صندوق التنمية الصناعية السعودي



Desert  
Technologies

# Supporting Document

راعي بلاتيني



الشركاء

## PV Solar Modules





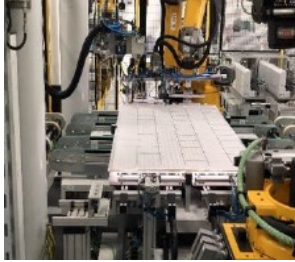
## Current Production Line

1



Stringer

2



Auto Layup

3



Bussing

4



EVA & Back sheet placement

5



Pre LAM  
Visual  
Inspection

6



Junction  
Box

7



Framing

8



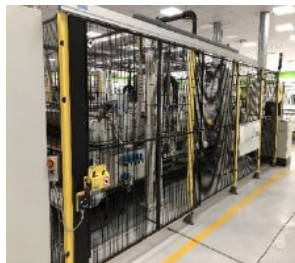
Post LAM Visual  
Inspection

9



Trimming

10



Lamination

11



Flash Test & HiBot

12



Off-Load

13



Final EL Inspection

14



Sorting

15



Packing

## Supporting Images from EL Testing Process



Figure 1: Current EL Inspection Image – Manual Defect Detection

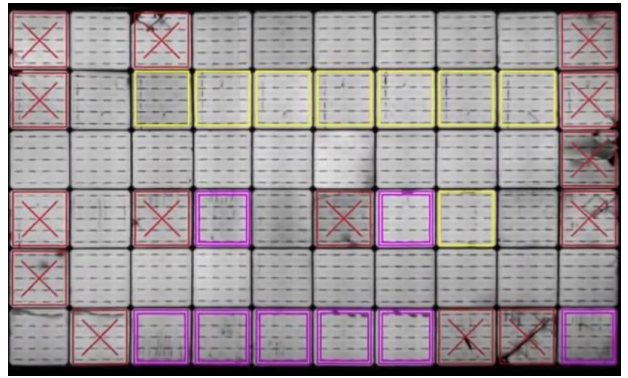


Figure 2: Example of AI-Driven Defect Recognition in EL Image

## EL testing hardware currently in use

