

CHANGSIK WOO

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RESEARCH INTERESTS

As an inspection process engineer at LG Display, I aim to build full inspection automation via AI. I am interested in various research fields necessary to make automation using many types of images by myself.

- Computer Vision & Image Processing
- Computational Photography
- Video / Multimodal Understanding

WORK EXPERIENCE

LG Display, Paju, South Korea

Jul 2016 - Present

Senior Engineer - WOLED(TV) Manufacture Process Engineer

Selected as Core Employee (2023-present) & Degree Dispatcher (2024)

- have worked on Inspection Process Engineer for WOLED Module Products.
- Currently focused on automation of inspection process using AI methods. (2022 – present)

PROJECTS

Projects Related to Inspection Process Automation at LG Display,

- **Defect Classification through Deep Learning Model for Auto Judge (2022 – 2023)**
Trained deep learning-based classification model using camera inspection cropped images and applied Defect classification for auto-inspection
- **Mura Defect Detection via Anomaly Detection (PaDiM) (2024)**
Trained and evaluated Anomaly Detection Model(PaDiM) to detect much wider and random-shaped mura defects using camera images.
- **Optimization of Image Preprocessing to Improve Detection Power for Anomaly Detection (2024)**
Evaluated various preprocessing methods in terms of cropping unnecessary areas and enhancing defect areas for improving missed & over-detection.

EDUCATION

Sungkyunkwan University, Suwon, South Korea

Mar 2010 – Aug 2016

B.S. in Electronic and Electric Engineering

GPA : 3.85 / 4.5