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import cv2

import numpy as np

image = cv2.imread('image.png')

gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)

blurred = cv2.GaussianBlur(gray, (5, 5), 0)

_, thresh = cv2.threshold(blurred, 0, 255, cv2.THRESH_BINARY_INV + cv2.THRESH_OTSU)

kernel = np.ones((3, 3), np.uint8)
morph = cv2.morphologyEx(thresh, cv2.MORPH_CLOSE, kernel, iterations=2)

contours, _ = cv2.findContours(morph, cv2.RETR_EXTERNAL, cv2.CHAIN_APPROX_SIMPLE)

output = image.copy()

for cnt in contours:
    area = cv2.contourArea(cnt)
    if area > 100:
        x, y, w, h = cv2.boundingRect(cnt)
        cv2.rectangle(output, (x, y), (x + w, y + h), (0, 0, 255), 2)
        cv2.putText(output, 'Defect', (x, y - 10), cv2.FONT_HERSHEY_SIMPLEX, 0.6, (0, 0, 255), 2)

cv2.imshow('Original', image)
cv2.imshow('Defects Detected', output)
cv2.waitKey(0)
cv2.destroyAllWindows()
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