```
START

// Initialize Libraries
IMPORT cv2
IMPORT numpy AS np
IMPORT ezdxf
IMPORT os

// Define Capture Image Function
FUNCTION CAPTURE_IMAGE(camera_port = 0)
    cap = cv2.VideoCapture(camera_port)
    IF NOT cap.isOpened() THEN
        RAISE Exception("Could not open video device")
    END IF
    ret, frame = cap.read()
    cap.release()
    IF NOT ret THEN
        RAISE Exception("Failed to capture image")
    END IF
    RETURN frame
END FUNCTION

// Define Show Image Function
FUNCTION SHOW_IMAGE(image)
    cv2.imshow('Captured Image', image)
    cv2.waitKey(0)
    cv2.destroyAllWindows()
END FUNCTION

// Define Detect Contour Function
FUNCTION DETECT_CONTOUR(image)
    gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
    blurred = cv2.GaussianBlur(gray, (5, 5), 0)
    edged = cv2.Canny(blurred, 50, 150)
    contours, _ = cv2.findContours(edged, cv2.RETR_EXTERNAL, cv2.CHAIN_APPROX_SIMPLE)
    RETURN contours
END FUNCTION

// Define Optimize Contour Function
FUNCTION OPTIMIZE_CONTOUR(contour, epsilon = 0.02)
    hull = cv2.convexHull(contour)
    epsilon = epsilon * cv2.arcLength(hull, True)
    optimized = cv2.approxPolyDP(hull, epsilon, True)
    RETURN optimized
END FUNCTION

// Define Export DXF Function
FUNCTION EXPORT_DXF(contours, directory, filename = "output.dxf")
    // Ensure the directory exists
    IF NOT os.path.exists(directory) THEN
        os.makedirs(directory)
    END IF
    // Construct the full file path
    filepath = os.path.join(directory, filename)

    doc = ezdxf.new(dxfversion='R2010')
    msp = doc.modelspace()
    FOR contour IN contours DO
        points = [(point[0][0], point[0][1]) FOR point IN contour]
        msp.add_lwpolyline(points, close = True)
    END FOR
    doc.saveas(filepath)
    PRINT("File saved as '" + filepath + "'")
END FUNCTION

// Main Process Flow
FUNCTION MAIN()
    TRY
        image = CAPTURE_IMAGE()
        SHOW_IMAGE(image)  // Show captured image
        contours = DETECT_CONTOUR(image)
        optimized_contours = [OPTIMIZE_CONTOUR(contour) FOR contour IN contours]

        // Specify the directory where to save the DXF file
        save_directory = "C:/Users/aksha/.vscode"
        EXPORT_DXF(optimized_contours, save_directory)
        PRINT("Contour detection and export complete.")
    CATCH Exception AS e
        PRINT("Error: " + e)
    END TRY
END FUNCTION

// Run Main if Script is Executed Directly
IF __name__ == "__main__" THEN
    MAIN()
END IF
```