

2nd Ain Shams Computer Vision Competition

CSE 464: Digital Image Processing Project

Team Name: Robotics Solutions for Industrial Automations

University: Ain Shams University

Department: Mechatronics Engineering

Project Description:

Using a camera with a robotic arm to identify the positions of several work pieces around the robotic arm so the robotic arm can be automated according to the camera feed.

(as a plus the robot should move in real life as in simulation in parallel to feed into the control room of a factory – for example – so to keep an eye of the performance of the robot).

Project Implementation Plan:

Using Python to make the master code that connects with other peripherals.

Using Arduino (controlled by the main python code) as a servo driver for the servo motors of the robotic arm

Using open CV to get visual data about workpieces from the working area

Team Members:

Kareem Tarek Abdel Kareem El-Ghobashy

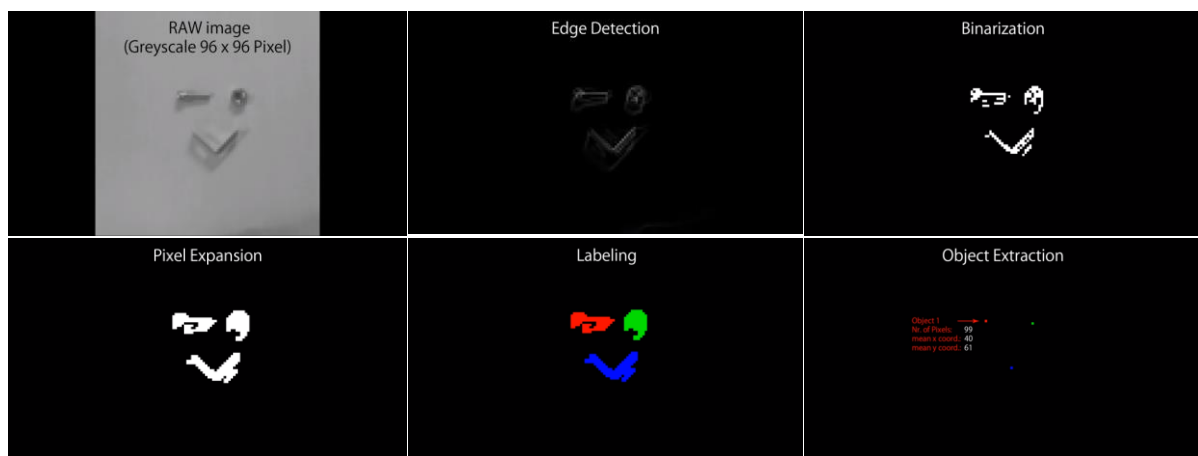
Mohamed Khaled Khaleel

Mina Gamil Gayed

Shady Abdel-Hamid Hegab

Mohamed Refaat El-Nagar

Image Sample:



References:

<https://www.youtube.com/watch?v=bL8fScdBOos>