**self evaluation(doron davidson):**

1. How do you evaluate your performance during the past year? (Please state

if you feel you’ve expressed yourself and your potential, are you satisfied, what

were your major accomplishments, any significant obstacles or difficulties you’ve

encountered).

1.Regarding my profession, this year I dealt with every task from the macro level to the micro level in detail and I was able to deal with every challenge and found correct and accurate effective solutions for every complex and difficult problem

The main task I'm working on is extracting the pixels of the frame without the lenses from the front image of glasses and extracting pixels of the handle from a side image of the glasses Or in other words removing the background of the glasses in the picture.

For one that I extracted the pixels of the objects I need to take the pixels that surround the objects which are a curve built from pixels and define it as a mathematical formula from polynomials.

The goal is to remove noise and also allow zooming without pixelation of the image.

At first I realized that I had to develop a dedicated infrastructure for the tasks

An infrastructure that deals with finding edges of objects in an image

And also an infrastructure that deals with the conversion of a curve to a polynomial.

In addition, the infrastructure also contains two-dimensional and three-dimensional geometric calculations.

I use the infrastructure to this day and also expand it as needed

The goal in developing and expanding the infrastructure is to speed up the development and reduce and optimize the code.

So far I have managed to develop an algorithm that knows how to find the edges of the glasses that works in most cases and I am still working on improving the algorithm

The challenge in finding the edges is to know what the threshold is for each point so that the algorithm finds the pixels of the edges without noise

That's why I developed an algorithm that knows how to detect noise at the edges, which is the main idea in finding all the edges of the object to extract its pixels from the image

In addition, I developed an algorithm that knows how to convert a curve that is defined by pixels into a curve that is defined by a polynomial - so that you can zoom and the shape of the frame or handle will remain the same and the image will not be pixelated

And it also smoothes out the found edges and removes the noises

The main challenge was to develop an algorithm that approximates a curve of pixels to a bitter curve of polynomials.

I think that so far this year I have contributed a lot to the development of sophisticated and complex algorithms for society.

2. Where do you need support/guidance in order to perform your job

effectively?

2. My task is a big project and so far I have been able to deal with every challenge in a good and efficient way

3. How do you see your professional development in the next year?

3. In the next year I intend to continue with the development and improvement of the algorithms to cover more cases so that the algorithms will be more robust and more accurate

4. Any other feedback you want to share?

4. I love my job and it is very interesting to me