# Category: Image processing.

Hello there, by taking this task means that you passed our filtration process. This task is to measure your capability of being a development team member for the Cairo University Team.

The answers of this task MUST be filled in a formal report; therefore, you first may need to search about how to write formal reports.

**Rules and submission:**
- The expected output of this task is a script written in your preferred language.
- Don't forget to provide your environment configuration (any packages used, python version,..) in your submission.
- There is very little weight on how you do input and output images in this task, choose a simple/clear approach for IO.
- Submit your script and any supporting files no later than next Sunday at midnight.

-The deadline of your task will be on July 21, 2019 at 11:59 pm.
-If you need any explanation. Send an email on **sem.cut_autonomous@yahoo.com** .

Given an image taken from roads containing traffic signs, write a script to detect stop signs inside the image, and output the image with the detected stop sign mark (make all other pixels black-like a mask- or place a rectangle around it).

Example images



Notes:

- Traditional solutions exist and highly recommended.
- You are strongly encouraged to do your research before approaching the problem.
- We will test your algorithm on a different set of test images but they still have the same main characteristics as the images provided, you can find more to test on the internet.
- You can make the assumption that only one stop sign exists in the image.
- Non-traditional approaches are accepted as long as you achieve the goal of the task.

Best of Luck.

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