Loay M.Wael

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OBJECTIVE

Computer Vision enthusiast in solving Object Recognition Detection, and Segmentation challenges. Built experience from online courses, reading papers such SSD and RPN, and practicing personal projects. Thrilled to contribute to your machine vision solutions and to collaborate with your team.

SKILLS

Python, C++, C	Linux, Git, CMake
Classical Computer Vision	OpenCV, Dlib
Machine/Deep Learning	TensorFlow/Keras
Robotics	Microcontrollers

PROJECTS – EXPERIENCE

25 Jun, 2020   Lane Keeping Assist – [Git-Repo]

Developed advanced lane detector that captures curved lanes estimating their radius of curvature, measuring the offset of the vehicle head from the lane center to adjust the steering wheel input back to the lane, using histogram peaks to locate the lane starting centers and Sliding Window algorithm to follow the lane path.

11, Jun, 2020   Vehicle Detector – [Git-Repo]

Developed Hog-Detector in python, OpenCV, and Scikit-learn using Sliding Window, Image Pyramids, and SGD linear classifier trained on KITTY/GTI datasets by using feature engineering to extract hog features, color histograms, and edges, the classifier scored Accuracy: 99%, Precision: 99%, and Recall: 99% on test dataset.

EDUCATION

- **Formal Education** | B.Sc Mechatronics Engineering

  2014 – 2019   Higher Technological Institute – GPA: 2.8

  Graduation Project | Wearable Heart Activity Tracker – Grade: Excellent [A]
  - Responsible for developing a machine learning model to predict heart attacks and their causes.
  - Participated in the Global Conference on the Internet Of Things (GCIoT) with G. project (poster).

- **Further Education** | Online Courses

  Dec, 2019   Machine Learning, Stanford Online, Coursera course
  Oct, 2019   Deep Learning, NTL Scholarship, Udacity 5 course nanodegree
  Mar, 2019   Deep Learning, deeplearning.ai, Coursera 5 course specialization

VOLUNTEERING

Aug, 2018 – Dec, 2018   Business Development Team Lead – Apex Racing Team
- Landed Business Award in "EVER" E. Vehicle manufacturing & racing competition managed by iHub.
- Cooperated with team departments to develop & pitch the business plan for an automaker startup team.

May, 2017 – Aug, 2018   Chairman IEEE Student-Branch – IEEE Egypt Section
- Founded 1st Micromouse "Robotics Competition".
- Founded RTI Tech Innovation event of +800 guest.
- Lead and supervised +70 passionate volunteers.
- Co-Founder and Former Leader R&D Team.