

Ahmed Sherif Mahmoud

Personal Information

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Military service: Completed

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Education

Bachelor-Studies, Faculty of Engineering, Ain-Shams University, Computer department, Grade: Good 2015 - 2020

Graduation Project

Predicting the Driver's Focus of Attention (Excellent)

Sept 2019 – June 2020

- Estimate what a person would pay attention to while driving, and which part of the scene around the vehicle is more critical for the driving task.
- Propose a computer vision model based on a multi-branch deep architecture that integrates three sources of information: raw video (RGB frames), motion (optical flow), and scene semantics (semantic segmentation).

Skills

Programming Languages

- C/C++
- Embedded C
- Python
- SQL

Version Control Tools

- Git and GitHub
- Eclipse
- Atmel studio
- Visual studio
- Eagle CAD

Operating Systems

- Linux ubuntu
- Windows

Office Skills

- Word
- Excel
- Power Point

Technical Projects

Motor Speed Control

August 2018

- Simple project to control the Motor speed using a PWM Signal as input to Motor Module.
- Motor speed is decided by a potentiometer that converts its analog value to digital through ADC Peripheral and Display ADC Value on LCD.
- Used Modules: PWM and ADC, to control DC motor
- Link: <https://github.com/ahmdshrf/Control-Motor-Using-AVR-Modules>

Stopwatch

June 2018

- Simple project that implements a stopwatch using 6 x seven segments multiplexed together to use only 10 pins, 4 for decoder and 6 for NPN transistors to enable multiplexing algorithm.
- There are Two Buttons, one for pausing the Stopwatch and the other one for resetting.
- Used Modules: Timers and Interrupts
- Link: <https://github.com/ahmdshrf/Digital-Clock-Atmega16>

Traffic Light PCB

Feb 2017

- Designing PCB to connect four 555 ICs, three LEDs and Switch together
- PCB is designed by using Auto Routing mode in EAGLE CAD.
- Link: <https://github.com/ahmdshrf/Traffic-Lights-PCB>

Certificates

Programming for Data Science Nanodegree

- Learn programming skills needed to uncover patterns and insights in large data sets, running queries with relational databases and working with Unix shell and Git. June 2020 - August 2020

Computer Vision Nanodegree

- Master the computer vision skills behind advances in robotics and automation. May 2020 - June 2020
- Write programs to analyze images, implement feature extraction, and recognize objects using deep learning models.

Eng. Mohamed Tarek Embedded Diploma

June 2018 - October 2018

- Introduction to Embedded Systems - Computer Architecture - C Programming - Data Structure – Embedded Systems Protocols (I/O PORTS – Interrupts – Timers – Watchdog timer – Motors) – RTOS – Software Engineering.