Zyad Ahmed Mackawy

phone +201159780091 Email zyadmackawy@gmail.com
LinkedIn https://www.linkedin.com/in/zyad-mackawy/ GitHub https://github.com/98zam98/

Education

Faculty of Engineering | Tanta University

Sep 2016 - June 2021

- Major:: B.E in Computer Engineering and Automatic Control
- Minor: Electrical Engineering
- Coursework: Data Structures & Algorithms, Operating Systems, Image processing, Computer Vision, Databases, Software Architecture, Math (1, 2, 3), Computer Graphics, Distributed Systems, Computer Networks, Circuits, Login Design, Electronics, Computer Architecture, Signals & systems, Fuzzy Control

Skills

Proficient: C\C++, problem solving, Arduino C, python, Algorithms & data structures, opengl, neural networks, tensorflow, Django, flask, html, css, js, jQuary, sass & scss,

 $good\ knowledge\ with\ AVR\ (atmega 328p\ on\ Arduino\ board\ using\ winavr)\ ,\ on\ the\ github\ you\ may\ find\ MCAL\ and\ HAL\ drivers$

And currently developing ARM (stm32f10 blue pill) MCAL drivers, already did rcc, gpio, nvic, exti, and systick on my github, didn't start HAL layer drivers yet

Basic knowledge about embedded linux, raspberry pi and automotive, database, mongoDB, angular, react

Familiar: electronics, C#, version control systems, SDLC, Agile, SOLID principles, Design Patterns,

AVR MCAL and HAL software Projects

Controlling 7 Segment with USART

https://github.com/98zam98/USART_7seg

Keypad with USART

https://github.com/98zam98/keypad-with-usart

Drivers

USART "serial communication protocol"

https://github.com/98zam98/usart_driver

7 Segment "displays numbers"

https://github.com/98zam98/7_segment_driver

LCD "basic 16x2 character display"

https://github.com/98zam98/lcd_driver

Debounce "solves bounce problem, where one press sends several signals"

https://github.com/98zam98/debounce_driver