

Ahmed Fares Abdelghani

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Date of birth: October 17, 1999

Profile Summary

Passionate fresh graduate seeking an opportunity that allows me to use and develop my knowledge and technical skills in an organization where, I can continue to learn while adding a value to the organization that offers professional challenges utilizing interpersonal skills.

Education

Oct 2018 – June 2023

Bachelor's degree in communication and Electronics Engineering

Shoubra Faculty of Engineering, Benha University.

GPA: (3.22) - 81%.



Graduation Project: Smart Greenhouse (Based on IoT)

- This project is Controlled by ATmega32 microcontroller to collect data from chosen Sensors like [DHT22, DHT11, Soil moisture , LDR, CO2 Sensor ,Water level sensor] depending on each reading of these sensors the related actuators will change its condition like [Heater , Cooling System , 12V LED Grow light ,Water Pump] Then send these data through UART protocol to Esp-01 Wi-Fi module to Sort These data for remote monitoring and controlling through [automatic (ATmega32) or manual (User)] mode on the IoT cloud using Virtual Pins and OTA principles.

Position: Team leader

Grade: A+

Professional Trainings

Sept 2022

Digital Egypt Youth Initiative, National Telecommunication Institute (NTI).

(Microwave and Optical Transmission Track)

Technical Modules: (120hrs)

- Optical fiber fundamentals.
- Mobile network overview.
- Microwave transmission link description and installation.
- Transmission protocols (PDH, SDH) description.
- Ethernet protocol description.
- Optical transmission overview.
- WDM key technologies:
- Optical terminal multiplexing (OTM) structure.
- Optical Add Drop Mux. (OADM) Types and structure.
- Optical line amplifier (OLA) structure.
- Regenerator (REG) structure.
- OTN frame structure OTN vs. WDM.
- Explore Cabinet Hardware description for common systems in Egypt.



Courses

Full Embedded Systems Diploma (AVR)

Nov 2022 – March 2023

- Basic Concepts of Embedded Systems and C Programming
- C For Embedded Applications (Embedded C).
- Data Structures (Linked-List, Stack and Queue)
- Computer Architecture
- AVR Micro-controllers Interfacing (Implement all the drivers)
 - (DIO, PORT, EXTI, GIE, ADC, TIMERS, Watchdog Timer, EEPROM).
 - AVR Micro-controllers Interfacing with Hardware Components such as:
 - CLCD / NRF24L01/ ESP-01/ Keypad / 7-Segment /DHT22/ (DC, Stepper, Servo) Motors.
 - Serial communication Protocols (**USART - SPI - I2C**).
 - Bus Technologies (CAN, LIN).
- Real Time OS(RTOS).

ARM Architecture based on STM32F103

August 2023 –Ongoing

- ARM Architecture
(ARM Processor Design and Core Peripheral-Bus Matrix - Harvard To Von Neumann)
- RCC Peripheral (Microcontroller Clock Types - PLL and FLL - Different Reset Types)
- DIO Peripheral (Digital Input/Output peripheral Basics - Different Input and Output modes)
- NVIC Driver (Interrupt Handling Techniques - The Nested Vectored Interrupt Controller)
- EXTI (External Interrupt Basics - AFIO Peripheral)
- SysTick (Interval Vs Busy Wait delay - Synchronous Vs Asynchronous Design - Callback Function)
- OS Scheduler (Operating Systems Basics - Building Real Time Scheduler)

Mobile Package

July 2022 – Sept 2022

- 2G "GSM+GPRS+EDGE".
- 3G "CDMA+UMTS+HSPA".
- 4G "LTE+LTE-A+LTE-A pro".
- VOLTE.
- 5G "SA + NSA" + 5G planning.

Skills

Technical:

- C Programming Language.
- C++ basic level.
- Eclipse.
- Understand Schematics and Datasheets.
- GitHub.
- Visual Studio.
- TEMS Investigation.
- Atoll.
- Proteus.
- MATLAB basic level.

Personal:

- Leadership experience.
- Presentation skills.
- Problem solving.

Awards & Achievements, Hobbies & Interests

Huawei ICT Competition 2022-2023



- Won the Silver medal in Huawei ICT Competition 2022-2023
HCIA , HCIP , WLAN , Secuirty , Routing and Switching.