Mohamed Salah Taman

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Objectives:

Embedded /Software Engineer Seeking an employment with leading company in software or Communications/IoT systems. and working with professionals in a teamwork to gain knowledge and improve my skills.

Education:

Embedded & IoT Systems (6 months program) Scholarship**.**
- At **N**ational **T**elecommunication **I**nstitute (**NTI**).   (2020).

B.Sc. **Communications and Computer Engineering**
- At (**H**igher **T**echnological **I**nstitute) **HTI**, 10th **of Ramadan**.   (2014-2019).
- General grade: **Good.**
- Graduation Project's Grade: **Excellent.**

Embedded system projects:

- **Neonatal Intensive care Unit (NICU) Incubator Equipment:** developed a software system that monitors all operations of Incubator-Equipment and designed A Human-Machine Interface using Touch-Screen to control & take actions.
  - *Technologies & Hardware:*
    - 8-Bit MCU (AVR) architecture ATmega128.
    - Thermocouples
    - UART & RS232
    - Smart Resistive touch screen
    - SPI
    - Timer & External interrupts
    - Pulse width modulation-PWM
  - *Tools:*
    - Atmel Studio.
    - Proteus.
    - Dock light
    - Nextion Editor
    - RG-TOPWAY Tool

- **Alarming system application**: to monitor the Temperature and trigger types of alarms according to the system state.
  - *Technologies & Hardware:*
    - 8-Bit MCU (AVR) architecture ATmega128.
    - Sensor LM35
    - The concept of state machine.
    - LCD & Keypad.
  - *Tools:*
    - Atmel Studio.
    - Proteus.
    - Code blocks.

- **IoT/Smart greenhouse:** to Create a fully automated greenhouse that cultivates crops without human intervention.
  - *Technologies & Hardware:*
    - 8-Bit MCU (AVR) architecture ATmega128.
    - Humidity & Temperature Sensor DHT11.
    - ESP8266 Wi-Fi module.
    - MQTT protocol.
    - UART.
  - *Tools***:**
    - Atmel Studio.
    - Proteus.
    - Code blocks
    - Dock Light.

- **Embedded C -AVR ATMega128 drivers:** Wrote driver-level code for most AVR peripherals from scratch in a modular & documented way.
  - *Technologies & Hardware:*
    - SPI, I2C, UART.
    - LCD & Keypad.
    - Timers & External interrupts.
  - *Tools:*
    - Atmel studio
    - Proteus

Skills:

- **TECHNICAL SKILLS:**
  - C-Programming Language.
  - Embedded C.
  - Microcontrollers Programming.
  - Real Time Operating System (RTOS).
  - Automotive Buses (CAN and LIN).
  - Familiar with Software life cycle & Software engineering.
- **Languages**:
  - Arabic: (Mother Tongue).
  - English: (Very Good).

Trainings &Courses:

Finished trainings & courses:
1. Intro to programming in C specialization at **Coursera**.
2. Embedded System diploma at **Embedded Fab.**
3. Embedded software and hardware architecture at **Coursera.**
4. Introduction to embedded systems at **Coursera.**

Current trainings:
1. Embedded Systems Programming using STM32 (Eng: Ahmed Eldeeb).

Experience &Internships:

- **Current**: Embedded Software engineer at AMGAD For Medical Machines.   2020.
- Maintenance engineer trainee at LG Electronic Company at 10th of Ramadan city   2018.
- Maintenance engineer trainee at Elsewedy Energya Steel at 10th of Ramadan city   2017.
- Maintenance engineer trainee at Coca-Cola factory Tanta   2016.

Personal information:

- **Nationality:**   Egyptian.
- **Military status:** exempted.
- **Data of birth:**   Jul 5, 1994.
- **Marital Status:** Single.