NANCY BAHAA ELDIN

CONTACT

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DATE OF BIRTH:
27th April 1999

ADDRESS:
Nasr city ,Cairo EG

SKILLS

Technical:

- C /Embedded C
- C++
- OOP
- Data structures
- Embedded systems
  Microcontrollers, Interfacing and serial communication protocols)
- AUTOSAR
- Embedded Linux (Currently)
- Arduino

Software:

- MATLAB
- Simulink

EDUCATION

Senior-2, Mechatronics Department, Faculty of engineering, Ain Shams university.

Cumulative Grade: Very Good

Expected graduation year: 2022

Current graduation project: AUTOSAR supervised by DR. Sherif Hammad

Basic Software Components (**BSW**) Embedded Development/Testing. Implementing the static code of the **ADC** Autosar driver for TM4C Micro-controllers using SWS version 4.3.1 ,integrate with other modules in addition to integration with our ASU Cordoba configuration tool.

WORK EXPERIENCE

Projects :

- **AUTOSAR**
  - Implemented DIO , PORT , ADC Autosar drivers for TM4C Micro-
- **Stopwatch using embedded C**
  - Developing a system that control the stop-watch time and display it on 7-segments.
  - Drivers: GPIO, Timer, External Interrupts and 7-Segement
  - Microcontroller: ATmega16.
- **Fan Speed Controller with Temperature**
  - Developing a system that controls the speed of a fan depending on the temperature.
  - Drivers: GPIO, ADC, PWM, LM35 Sensor, LCD and DC-Motor
  - Microcontroller: ATmega16.
- **Distance Measuring System**
  - Developing a system that measure the distance and display it on LCD.

- Solid works
- Circuit simulations (Multisim & Proteus)
- Microsoft office (Power Point , Word , Excel)

Personal:

- Excellent Presentation skills
- Leadership skills
- Documentation skills
- Hard worker
- Fast learner

LANGUAGES

- Arabic (mother tongue)
- English (fluent B1C)
- German (still learning)

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- Drivers: GPIO, ICU, Ultrasonic Sensor and LCD
- Microcontroller: ATmega16.

- **Generator:**
  -Made a generator from A to Z using online searching to reach an output of 65-watt radial generator.
- **Elevator prototype using microcontroller:**
  -A three floor elevator with a load cell and touch sensors.
- **RC car using microcontroller:**
  - self-parking, line follower and remotely controlled
- **furnace prototype using microcontroller:**
  -A small furnace example using temperature sensor.
- **LMS prototype system using C++:**
  -This program makes statistical processes on students' data then modifying and updating this data.

Courses:

- **Full embedded systems diploma under supervision of engineer Mohamed Tarek** (,C, Embedded C, , Real time OS(RTOS), Software Engineering, Embedded Tools and HW Labs).
- **Embedded Automotive and Autosar Device Drivers course under supervision of engineer Mohamed Tarek** (Autosar layered Architecture , Autosar and C Misra rules, Automotive buses LIN and CAN, ,).
- **ARM Architecture based on TM4C Micro-Controller course under supervision of engineer Mohamed Tarek** (TM4C GPIO driver SysTick timer Driver, NVIC Systems ,TM4C Edge Triggered Interrupts , TM4C PLL Driver).
- **Embedded Linux Course** (Currently)
- **Arduino course** (dealing with different sensors with the Arduino microcontroller).

IHUB ASU Racing Team Organization:

- HR recruitment 2018 | 2019
  - Conducting interviews.
  - Filtering CVs and applications.
- BLC member 2019 | 2020
  - Preparing business plan.
  - Presenting in front of judges from UK in formula student.