

Eslam

Ehab Bedier Aboutaleb

Egypt, 6th of October city

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Military statues: Exempted

OBJECTIVE

Looking for challenging opportunity in competitive environment which will permit me to continue practicing and expanding my skills set and knowledge base and be able to provide the full benefits of my skills, I'm dedicated learner and I hope to be significant contribution.

EDUCATION

Bachelor degree in Engineering: Mechatronics department - **2019**

October 6 university, Egypt.

COURSES & CERTIFICATIONS

- **ISTQB Certified Tester Foundation Level (Egyptian Software testing board) – 2019.**

- **Full Embedded system diploma at Amit learning center**

1- C programming language & Embedded C 3- RTOS
4- Embedded System tooling 5- ISTQB CTFL
6 -Automotive buses CAN & LIN

- **ARM based diploma at IMT school**

1- ARM architecture 2- RCC & GPIO 3 - NVIC 4- SysTick
5- Debugging 6- Building OS base on SysTick 7- DMA
8- Flash driver & bootloader 9- Final project Bootloader using UART protocol

- **Embedded automotive & AUTOSAR device drivers course under supervision of engineer Mohamed Tarek**

-AUTOSAR layered architecture -AUTOSAR Device drivers
-MISRA c -Automotive buses LIN & CAN
-Implement DIO AUTOSAR driver -Final project (full layered architecture module)

- **Software Design course at Swift ACT**
- **Automation diploma (PLC, classic control and SCADA)**
- **Analog & digital electronics course**

PROJECTS

- **Water hyacinth collector boat (graduation project, grade: excellent)**
-Boat using two ATMEGA 32 MC operated with Preemptive OS, which its job to collect water hyacinth in a tank which has capacitive IR sensor to stop belt motor when it is full with measuring

temperature and humidity of surrounding environment to turn on cooling fans to provide the system safe environment.

- **Bank locker using 2 AVR microcontrollers (diploma project, grade: excellent).**
- **Bootloader using STM32F103C8T6.**
- **Full AUTOSAR layered architecture (Port driver).**

SKILL HIGHLIGHTS

- **Programming:**
 - Excellent knowledge of C programming & embedded C
- **Microcontrollers:**
 - ARM - AVR -PIC
- **Communication protocols:**
 - UART / USART
 - SPI
 - I2C
 - CAN & LIN
- **RTOS**
- **Bootloader**
- **IOT:**
 - WIFI modules
 - Socket programming
- **Tools:**
 - Simulation tools: Proteus, automation studio
 - IDEs: Eclipse, Code blocks, Atmel studio, STM32CubeMX and Keil
 - Git
 - Microsoft office (Word - Excel - PowerPoint)
- **Testing:**
 - ISTQB FL
 - Writing test cases and bug reports
 - Debugging
- **Software design:**
 - Detailed driver design
 - Design patterns
 - Static and dynamic design
 - AUTOSAR software design
- **Standards:**
 - MISRA C standards
 - AUTOSAR
- **Additional skills:**
 - PLC, classic control, HMI, SCADA
 - Google SketchUp & Autodesk inventor
- **Languages:**
 - English
 - Arabic

INTERNSHIPS

- Internship at ALFA ceramic (production lines and its maintenance),2015.
- Internship at shell Egypt (Converting the mechanical valves into pneumatic valves),2016.
- Internship at General authority for educational buildings (car parts and HVAC systems),2018.