# Mina Karam Fahmy

## **Contact Information**

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## **Career Objective**

I'm an ambitious man who is looking for challenging in embedded software development and put my knowledge in embedded systems field in automotive industry, I worked on myself and improved my skills individually, a very good quick self-learner.

Education			
Sep. 2015 - Aug. 2020	<ul> <li>B.Sc. in Electronics and Communication Engineering, Good (79.3%)</li> <li>Faculty of Engineering, Thebes Academy.</li> <li>Graduation Project (Obesity Kid's Watch)</li> <li>The project objective to help kids to solve their problem with childhood obesity by counter moving step, Motivating and tracking their location, temperature and Heartbeat Rate by their parents using Mobile APP or Online Site using IOT Technology.</li> <li>My Main Role: Implementing neo-m6 GPS Module with NodeMCU</li> <li>Grade: Excellent</li> </ul>		
Courses			
<ul> <li>AUTOSAR         <ul> <li>AUT</li> <li>AUT</li> <li>AUT</li> <li>✓ AUT</li> <li>✓ Basi</li> <li>C</li> <li>M</li> <li>C</li> <li>I</li> <li>Mastering</li> <li>✓ Inte</li> <li>✓ MCI</li> <li>✓ (GPI</li> <li>✓ (I2C)</li> </ul> </li> </ul>	Master Class OSAR Layered Architecture OSAR Tools c Software Deep Dive Communication Stack Memory Stack Diagnostics Stack /O Stack <b>g Microcontroller with Embedded Driver De</b> rfacing with STM32 (NUCLEO F446RE board) (ARM C J (Memory map – Bus Interfaces – Clock Tree – Inter IO – SPI) Driver API Implementations – UART – USART) Driver Development	<ul> <li>(Jun 2020 - Aug 2020)</li> <li>RTE &amp; Application</li> <li>Types of Software Components</li> <li>RTE data types</li> <li>RTE Features (Sender/Receiver - Client/ Server - Mode Switch)</li> <li>RTE Configuration</li> </ul>	
Introduct     ✓ Emb     ✓ Mul     ✓ Inte	ion to Real-Time Operating Systems RTOS bedded SW Dynamic Architecture titasking r-Task (Access/Event) Synchronization	<ul> <li>(Sep 2019 - Nov 2019)</li> <li>✓ Fixed-Size Memory Management</li> <li>✓ Software Timers</li> </ul>	
<ul> <li>Embeddee</li> <li>✓ ES C</li> <li>✓ Soft</li> <li>✓ Driv</li> <li>✓ RTO</li> <li>Arduino, I</li> <li>✓ Doir</li> </ul>	d Systems (AVR Atmega32) Concepts ware design with layer architecture (HAL + MCAL+ A er Design and control peripherals as Timers, PWM, I S {Real Time Operating Systems} Processing, C# Programing and SQL server ng projects	(Jul 2018 – Nov 2018) ✓ Interfacing with AVR Atmega32 pplication Layers) 2C, UART, SPI, ADC ✓ Automotive Communication Protocols (Jul 2017 – Sep 2017)	
<ul> <li>Embeddee</li> <li>✓ C Pr</li> <li>✓ Inte</li> </ul>	<b>d Systems (Microchip Pic)</b> ograming / Embedded C rfacing with Microchip PIC	<ul> <li>(Jun 2016 - Nov 2016)</li> <li>✓ How to read Data-Sheet</li> <li>✓ Implement (GPIO-LCD- Keypad) Driver</li> </ul>	

### Skills

#### **Technical Skills:**

- ✓ C/C++/Python Programing
- ✓ Embedded C
- ✓ Debugging Skills
- ✓ Microcontroller interface
- ✓ Data Structure
- ✓ Device Driver Implementing
- ✓ Linux Administration
- ✓ Communications Protocols (UART, SPI, I2C, CAN, LIN)
- **Interpersonal skills:** 
  - Ability to work under pressure
  - ✓ Management skills
  - ✓ Adaptability
  - ✓ Creative Problem solving
- Language Skills:
  - ✓ Arabic: Native
  - ✓ English: Very Good
- **Projects**
- **AUTOSAR Project** 
  - ✓ In this project we tried to implement a seat control, divide the application into small SWCs which perform atomic functionalities
  - ✓ Describe SWC needs to RTE by **authoring tool "SAAT**", port interfaces like Sender/Receiver, Client/Server, Mode Switch
  - ✓ Configure RTE to connect all this SWCs in run time
- **IOT Smart Home** 
  - ✓ Using Keypad for password security
  - ✓ Using passive infrared sensor and Temperature sensor
  - ✓ Fan and Buzzer Control
- **Smart Blind Stick** 
  - ✓ Using Ultrasonic sensor with buzzer by Atmega32
- **Electronic Gate + Point of Sale** 
  - ✓ Using RFID Sensor by Atmega32
  - ✓ Design GUI by C# Programing
- **Function Generator** 
  - ✓ Design PCB to generate (Sine Square ramp Sawtooth Triangular) Signals
  - ✓ Using AVR With Control switching and Graphical LCD.
- (Line follower Remote Controller) Car
  - ✓ Using Arduino with motors
  - ✓ Using Transmitter and Receiver

## Competitions

- Arab IOT & AI Challenge in Egypt (Feb 2020 - Present) ✓ Joined with my Graduation project ✓ Reached Semi-Final between 120 teams **Robothebes Line Follower Challenge** (Jul 2016 – Aug 2016) ✓ Making Line follower car Volunteering
- **Team Leader at scout**
- Squad Leader •
- Scout Member

- ✓ Real Time Operating Systems
- ✓ AUTOSAR architecture concepts and methodologies
- ✓ AUTOSAR Tools
- ✓ Getting Info. From AUTOSAR pecs
- Python scripting
- ✓ Computer architecture
- Embedded Tools
- $\checkmark$ Assembly Language
- ✓ Self-motivation
- Quick learner
- Flexibility
- ✓ German: Beginner
- (Jul 2020 Aug 2020)
- - (Jul 2018 Nov 2018)

#### (Jul 2017 – Sep 2017)

(Jul 2017 – Sep 2017)

(Feb 2017 - Mar 2017)

## (Jul 2016 - Aug 2016)

- - ✓ Using IR Module

(Aug 2019 - Present) (Sep 2016 - Aug 2019) (Sep 2006 - Aug 2016)