Abdullah Abdelhakeem Amer

Mechatronics Engineer

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PROFILE

- Satisfying my passion of working in automotive career and expand my knowledge by gaining more experiences.
- A Self-confident, energetic and creative person with the ability to work individually or in a team in various work environment.
- I want to become a maker of technology, not just a consumer of technology.

CONTACT

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HOBBIES

- Reading
- Gym
- Search
- Football
- Writing
- Running
- Music
- Help People

Interests

- Embedded Systems and Embedded Linux
- Mechatronics Engineering
- Programming Language
- Coding and Solving Problems
- Internet Of Things
- Artificial Intelligence
- Machine and Deep Learning
- Sensor Fusion

Education

- **2013 - 2018** **Bachelor's degree of Mechatronics Engineering**
  HTI 10TH OF RAMADAN, EL SHARQIA, EGYPT
  - **Accumulative Grade: Very Good (3.18).**
  - **Graduation Project: Excellent.**
- **2012- 2013** **General Certificate of High School.**
  (*Gamal Abdel Nasser Secondary School*)

Experience

- **Jul 2020 - Sep 2020** ARM Based Microcontroller Diploma, IMT
- **Feb 2020-Mar 2020** Embedded Linux Diploma, IMT
- **Feb 2019-Mar 2019** Embedded Automotive and AUTOSAR, MT
- **Jun 2018-Nov 2018** Embedded System Diploma,IMT
- **Jun 2017-sep 2017** Embedded System Diploma,3alemny
- **Aug 2018-Jan 2019** Web Developer Dip (Web Site + Mobile App)

Internship

- **Feb 2018-Apr 2018** Company Drinking Water and Sanitation
- **Jun 2017-Aug 2017** Khalid Automotive Center
- **Jun 2016-Aug 2016** Center for Heavy Equipment
- **Jun 2015-Aug 2015** Benha Electronic Industries Co

Graduation Projects

- **Jan.2017 - Jun.2017** **"Automatic petrol Station"**
  - **At a time When Egypt was working to improve the economy by establishing a global roads to facilitate the movement of production, our role as mechatronics engineers appeared in speeding up the process completely by making automatic petrol station.**
  - **Automatic Petrol Filling works similar to an ATM Machine, but instead of withdrawing Money, petrol is taken without any interaction from anyone.**
  - **The numbers of Team members were 5.**
  - **The project took 4 months.**
  - **I can make improvements so that , I can apply the smart gasoline card , create a database for citizens and know their consumption ,so that we can distribute gasoline fairly.**
  - **Tools**
    - **LCD**
    - **Ultrasonic**
    - **Stepper Motors**
    - **Keypad**
    - **RFID Sensor**
    - **Arduino Mega**

volunteer

- IEEE HTI (10^{Th} of Ramadan) as Member in Publicity Committee.
- Coursera (Global Translator Community) as English Translator

Language

- Arabic
- English
- French
- Germany

Personal Info

- Date of Birth: 1 January 1994
- Military Status: Completed

Skills

Hard Skills

- C (89-90)
- C++ (12)
- Embedded C
- Java Basic
- Python3
- Microcontroller
- RTOS
- Free RTOS
- Embedded Linux
- MATLAB
- PLC (LG)
- SolidWorks
- Linux
- RPI
- LabView
- HTML5
- CSS3
- Java Script
- Node Js
- Express
- Angular Js
- Cordova
- UART
- SPI
- I2C
- LIN/ CAN
- OOP
- MS Office
- Testing
- Data Structures

Soft Skills

- The ability to adapt easily with the work environment.
- Quick learner.
- The ability to work under stress.
- Absorb and Learn new technologies.
- Self-motivated.
- Self-Committed and Good communicator.

Projects

- Diploma Project HTI: Metal Detector Robot (Arduino Uno and Mobile App).
- Smart Project HTI: Color detector by Image Processing of LabView (Arduino Uno, Camera, PC, DC Motor)
- Door lock system using: Keypad, LCD, EEPROM, UART, SPI and I2C.
- Line Tracking Technique => localization and mapping, orientation by Mpu6050 , Wireless Module, GUI by LabView& Arduino
- Mobile controlled home (EEPROM, I2C, Solenoid, led, Bluetooth Module, Mobile APP by Cordova Platform)
- Obstacle Avoiding robot with metal detector (Atmega32, TIMER0,1 for PWM, ICU, Interrupt, Ultrasonic, Servo Motor).
- Line Follower Robot using Atmega16
- Anti-Theft Alert System using Atmega8.
- Smart Home by Raspberry pi and Python GUI (Tkinter).
- Digital Marketing LCD App by Raspberry pi3 Over Different Network.
- Voice Controlled System Over Internet by Google Assistant, IFTTT App, Web Server and Raspberry pi3.
- Build Custom Linux By Build Environment Called YOCTO (poky, BSP, Metadata, Bitbake, QEMU) and Generate Image (Linux Distribution) then Download it in SD Card of Raspberry pi3.
- Implement DIO Driver as AUTOSAR Driver.
- Implement a full module test for the DIO AUTOSAR Driver.
- Design and Implement the full Project using Software Layered architecture (Dynamic and Static Design).
- Spam Detector with python project — Registration System Project.
- TODO APP by HTML, CSS, JavaScript and Cordova platform — Restaurant Website Project — Login and Registration page project
- ATM Machine by Raspberry pi3, keypad, Screen and Motors.

Courses Online

Udemy

- Machine and Deep Learning from scratch
- C programming
- English Conversation
- Entrepreneurship skills
- C#-Beginner to Advanced
- How to code by c
- SQL Querying
- ISTQB Foundation Preparation
- Java Tutorial
- Time management skills

MaharaTech

- Android
- Introduction to Deep Learning
- IOT
- Python
- Cyber Security
- Applied Deep Learning

Coursera

- Crash Course on Python, Google
- Mathematics for Machine Learning, Imperial College London
- AI For Everyone, DeepLearning.AI
- .HTML, CSS and JavaScript for Web Developer
- Python Diploma

Udacity

- Front-End Development Track – (One Million Arab Coders Initiative)

Edx

- Embedded Systems-Shape The world

Edraak

- Entrepreneurship
- English Conversational
- Job Interview
- Teamwork Skills
- JAVA
- ICDL
- Covid-19 vs Immune
- Nutrition and health

Sololearn

- C / C++
- JavaScript
- C#
- HTML5
- Java
- CSS3
- Python
- JQUERY