

# Sahar Hassan Nooh

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## Objective

Seeking a challenging career in the field of Software Engineering at a reputable corporation that will allow me to utilize and reinforce my skills, as well as my academic background.

## Education

Nov 2020 –Feb 2021 National Telecommunication Institute (NTI) Digital Egypt Youth Program

Track : Embedded Software Engineering

Oct 2016 –Aug-2020 BSc in computers and Information systems Beni sufe University.

Major: Computer science Accumulative Grade: Very good with honor.

Graduation project grade: Excellence.

## Technical Skills

C Programming

Embedded systems fundamentals.

OOP

Basic concept of testing

Data structure and Algorithms.

AVR Microcontroller interfacing

Good in problem solving.

STM32 Microcontroller interfacing (ARM Architecture)

Embedded C

RTOS & AUTOSAR

Communication protocols (UART , SPI, I2C, CAN ,LIN)

Implement MCAL, ECU generic drivers

Tools: Code Blocks, Atmel Studio, Eclipse, STM32CubeIDE, Atollic True Studio.

## Projects

### Graduation project:

Detecting Estrus in cow using IOT (using NodeMCU & Sensors that communicate with Microcontroller using I2C & Web tech& AI Algorithms)

**Smart home system** that can automatically turn on/off lamps ,l\ lock /unlock door, play music and fan when temperature is high using (temp sensor, LDR, Bluetooth module, android app ,led fan ,ADC,EEPROM ,DIO).

**Door Lock System** that check password entered by user through virtual terminal  
Handling tasks using a preemptive real time kernel (**FREE RTOS**)  
Used drivers UART, DIO, EEPROM, LCD, STEPPER Motor

**Motor Dash Board** using (DC, stepper and servo) motors LCD, KEYPAD,DIO,TIMER1.

**Waiting system in car** using DIO &state machine.

**Smart Calculator** Do all arithmetic operation and converter numeric system using (kepad,lcd,DIO).

**Stop watch** using Timer0 and DIO.

**School Management System** ( C code ).

**Pharmacy Management System Project** that manage pharmacy orders and deal with customers easily (java (basics ,OOP ,GUI),MySQL).

### **Training Courses:**

Embedded systems diploma in 2020.

Scholarship from NTL in IOT Specialization (An Introduction to Programming the Internet of Things) in 2019.

Arduino course in 2018.

Advanced data structures and algorithm camp in 2017.

### **Competitions participated in:**

Egypt IOT &AI Challenge

ACM Sa3edy Programming Contest.

### **Interpersonal skills**

The ability to adapt easily with the work environment.

Quick learner

The ability to work under stress and good communication skills.