



Amr Tarek Hassan

Software Engineer

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Career History

Embedded System Engineer

iHomeFuture

Feb 2016 – Present

www.ihomefuture.com

Working on several embedded system project like Home automation, safety , security systems, and custom communication interface driver using SPI, UART,I2C, Bluetooth, and z-wave, design and implement electronics circuits using AVR micro-controller, ARM controller, and Altium Designer for PCB, then simulate it using Proteus software.

Software Engineer

SmartSense Co. ltd – Samsung's

Mar 2014 – Feb 2016

www.smartsense-ltd.com

In charge of design and develop daily report, and attendance systems application for employees by web and android application , and maintenance Samsung's electronics boards for mobiles and TVs.

Embedded Software Engineer

Brilliance Tech.

July 2012 – Mar 2013

www.brilliantecotech.net

In charge of design and implement printed circuit boards (PCB), and support Collage graduation projects which depends on AVR micro-controller and communication protocols like SPI, UART, I2C, and implement, simulate it on Proteus simulator.

Capabilities and Skills

- » Experienced **C**, **advanced C**, **Embedded C**, **Java SE** programming languages.
- » Familiar with **Assembly**, and **C++** concepts.
- » Depth knowledge about **AVR** and other **microcontrollers' architecture**.
- » Strong Knowledge of **communication protocols** e.g. **SPI**, **UART**, **I2C**.
- » Basic knowledge about **RTOSs concepts**.
- » Basic concept of **AUTOSAR**, and **Automotive communication protocol** e.g. **LIN**, **CAN**.

- » Experience in **PCB design** and **electronic circuits simulators** like **Proteus**.
- » Knowledge in digital RTL design using **VHDL** and Verilog with **Xilinx ISE** suit on **FBGA** kit.
- » Aware of **Software Engineering Concepts**.

Skills: C/C++ language, embedded C, Assembly language, VHDL, Java SE, android developing, HTML, CSS, JavaScript, JQuery, Ajax, Bootstrap, PHP, and MYSQL.

Tools: Net Beans, Eclipse, Dev C++, AVR Studio, Proteus, Xilinx, Altium, Dream waver, Artisteer, Navicat, and Photoshop.

Operating Systems: Windows versions, Linux distributions.

Academic and Courses

Embedded System Diploma.

Mar 2012 – Jun 2012

Brilliance Tech

- » C, Embedded C programming language.
- » Embedded Systems concept and principles.
- » AVR Micro-controller architecture and SPI, UART, I2C communication protocols.
- » Concept of RTOSs for embedded systems.
- » Concept of Software Engineering.

Mobile Diploma.

Sep 2011 – Dec 2012

Jelecom

- » Global System for Mobile Communications (**GSM**).
- » General Packet Radio Service (**GPRS**).
- » Enhanced Data for Global Evolution (**EDGE**).
- » The Universal Mobile Telecommunications System (**UMTS**) – 3G.
- » Long Term Evolution (**LTE**) – 4G.

BSc. Electronics and communication.

Sep 2011 – Dec 2012

Al-Shorouk Academy

- » **Major:** Electronics and Embedded Systems.
- » **Grade:** Good - 73%.
- » **Graduation Project:** Implementation of LTE physical layer using VHDL and FPGA kit
- » **Grade:** Excellent.

References: Available upon request.

Personal Information

- » **Military status:** Completed.
- » **Language:** Arabic – Native, English – Fluent, German - Study
- » **Personal Qualifications:** Excellent communication and presentation skills, ability of working in team or individual, working under pressure and learning new topics.
- » **Interests:** Computer Games, playing football, and swimming.