

Ahmed Sami Hamed

Embedded Software Engineer at FPT Software, HCMC, Vietnam.

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Military service Status | Completed - 1 year (2013-2014)



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PERSONAL STATEMENT

I'm a 25 year old Embedded Software Engineer, tending to occupy an intellectual position in a dynamic growth-oriented organization involved in the semiconductor industries. I have 1.5 years of experience in Embedded Systems industry particularly. My experience is focused in AUTOSAR and specifically the MCAL layer.

EDUCATION AND QUALIFICATIONS

- B Sc. in Mechatronics - Faculty of Engineering - Ain Shams University - Graduated late Sep, 2008 - Jun, 2013.
- Mechatronics major (Last 2 years) grade of **Distinction** with equivalent **GPA of 3.5/4.0**, ranked **1st** among my class.
- Diploma in AVR microcontrollers Mar, 2013 - Jul, 2015.
- Advanced Embedded systems diploma for MCAL, ECUAL and Complex drivers (BSWmodules) Jan, 2015 - Jun, 2015.
- Artificial Intelligence Planning , online course by the university of Edinburgh lectured by Dr. Gerhard W.
- Image and video processing , online course by Duke university lectured by Guillermo Sapiro, PhD.

WORK EXPERIENCE

- [Oct, 09 - Nov, 09] Trainee at **AbolYazid** Company for Automotive Exhaust systems as a Systems integrator in Egypt.
- [Jun, 10 - Aug, 10] Trainee at **Schneider Electric** Company at Quality Control department - [Reception line] and [In process].
- [Oct, 10 - Nov, 10] Trainee at **NGC [National Gypsum Company]** in Saudi Arabia - Allen Bradley PLC's integration and HMI design.
- [Oct, 11 - Dec, 11] Trainee at **El Khalda Petroleum Co.** as Control Systems Engineer at Oil & Gas Power Plant / Gas turbines division.
- [Aug, 12 - Dec, 12] Trainee at **PepsiCo** Chipsy 6th October, Production line's sensors' integration & Changeover time reduction by applying new schemes.
- [Jan, 13 - Nov, 13] Former Embedded Systems developer at **+T Robotics** startup company and Instructor for Atmel/AVR mC's at Fekra Training center.
- [Oct, 12 - Dec, 13] The Graduation project was **ROV (Remotely Operated Vehicle)** and upgrade it to an **AUV (Autonomous Unmanned Vehicle)**, With a grade of **Distinction. ASU Racing Team ROV/AUV'2013** (graduation project) software team Leader.
- [Oct, 13 - Nov, 13] Participant at **RoboSub 2013** competition for autonomous vehicles - **AUVSI** foundation (Autonomous Unmanned Vehicles Systems International) in **SSC Pacific TRANSDEC, San Diego, CA 2013**. The competition is supervised by the U.S. Navy Army.
- [Dec, 14 - Jan, 15] **Makeena** Co. for constructing rapid CNC router machines - Embeeded Software Engineer MCAL /PCB inspector.
- [Jan, 14 - Feb, 14] **Scrum/SPD** training.
- [Mar, 14 - Apr, 14] Training in yocto project/Qt/Raspberry Pi.
- [Oct, 13 - Jan, 15] Technical supporter for **AUV 2014** graduation project team in the image processing (OpenCV/TIP) - Ain Shams University.
- [Feb, 15 - Jul, 15] Instrumentation Maintenance Engineer at GM **General Motors Egypt, North Africa.**
 - Make a database for the electrical instruments in the factory for s/w maintenance and upgrade purposes in cooperation with **Atlas Copco Co.**
 - Keep the maintenance plan updated in following-up with labor below working under my supervision.
 - Business Plan Deployment **BPD** for the software quality and to meet **GMIO** policy and standards.
 - Support the Mechanical team in any on-site technical problems/issues to reduce downtime duration.
 - Good background about **Allen Bradley** PLC control.
 - Update the controlling scheme of 2 production lines for significant higher baud rate in the communication between line's sensors.
 - Upgrade the precision of many sensors and re-calibration.
- [Jul, 15 - NOW] Embedded Software Engineer at **FPT Soft.** Ho Chi Minh, Vietnam.
 - Working in **MCAL** specialized in Timer driver "**General Purpose Timer GPT**" in different **H/W architectures (TAU/TMU/CMP)** for the new SoC's **ARM** based **RCar** New Geneneration of microcontrollers 3 by **Renesas Electronics Co.**
- [Jul, 15 - NOW] - Working onsite in RVC Renesas Vietnam Co. for the new RCar µc development. Upgrade from **F1L** µc to **ARM** based **RCar** µc.
- [Jul, 15 - NOW] - Experience in **AUTOSAR 4.0.3/ 4.2.2** (Upgrade from 3.2.2 version) modules configuration and integration (RTE, MCAL and Callback between peripherals) onsite at **Renesas Vietnam Co.** (Creating the upgrade process starting from the documentation of UML (Activity diagrams), Design of ESDD/TSDD/DD/FD/Sequence diagrams/EDriver code/Configuration tool/Generation tool using **Perl** and Testing.
- [Oct, 15 - NOW] - Working on **GIC400 V1/V2** with/without Security Extention by ARM and desiging the most suitable ISR handling mechanism for the GIC.
- [Sep, 15 - NOW] - Investigating the Test cases will be applied to the driver and reporting unit testing using Cantata.
- [Oct, 15 - NOW] - Applying **FUSA** (Functional Safety) requirements in RCar new platform, and revising **Renesas' SAN** (Safety Application Note) for the GPT driver.
- [Nov, 15 - NOW] - In charge of reviewing documents/source codes of DIO and PORT BSW modules.

RECOGNITIONS



Grade of Distinction in Graduation Pr. Autonomous Underwater Vehicle Oct,2013



One of best 3 teams in Quality Corner at FPT Software, Vietnam. Aug,2015

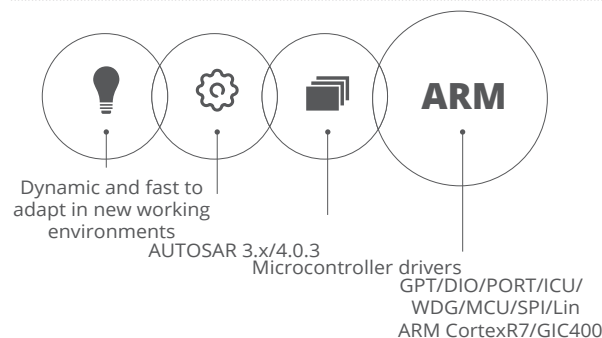


Certified Solidworks Professional. Solidworks international certification. Oct,2011 - Now



Advanced Embedded Systems diploma. at Embedded Fab Co., Egypt. Jan,2015 - Jun,2015

Skills/Fields of interest



LANGUAGE SKILLS



Specialization/Tools

01 Technical skills

- C/C++ (5 years)
- AUTOSAR (1 year)
- Shells / Vim (0,5 year)
- Eclipse/NetBeans (5 year)
- ISO26262 & MISRA
- Proteus/PSpice
- Perl (0,5 year)
- XML
- ECU Spectrum
- Enterprise Arc. (1.5 year)
- UML (5 years)
- ARM
- Linux
- CygWin/MinGW
- GCC
- GreenHills
- SVN Tortoise
- Linux
- GIC400/F1L
- F1x microcontroller
- AVR ATMEGA
- RCar Gen3 H3/M3W
- HW user manual reading
- RTOS
- Adobe Ps/ Illustrator
- Microsoft Office