Islam Sherif Hussein

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OBJECTIVE

Seeking a leadership position where I could utilize my technical knowledge and skills combined with my management and interpersonal skills to build and empower a powerful winning team.

PROFESSIONAL EXPERIENCE

Vector Informatik GmbH Stuttgart Nov 2017 – Present
Software Architect / Project Manager
Responsible for the development of customer projects using Vector SW and Tools.

- Software Integration Coach responsible for supporting customer needs for BMW xPAD project. An adaptive AUTOSAR platform for autonomous driving based on the Vector adaptive Microsar software stack and Intel based hardware running Linux OS, OEM: BMW
- Software architect responsible for software architecture for HVDCDC2 Project, an ASIL C 48-V DCDC Converter ECU for Panasonic, OEM: Mercedes Benz, based on Vector Microsar software stack and AURIX TriCore microcontroller.
- Project leader/manager for Daimler BEA2 HVC (High Voltage Controller) ECU basic software integration and development, a part of BEA2 (Battery Electric Architecture) for Daimler electric mobility battery management solution, based on Vector Microsar stack and AURIX TriCore microcontroller.
- Created and maintained software architecture for gateway-specific extensions/CDDs for Vector Microsar stack in order to support automatic routing of diagnostic requests for Bosch/MQB37GW gateway project.
- Played the project leader role for integration of basic software for a brushless dc motor control unit (responsible for parking break control) as well as development of motor-specific CDDs (Complex Device Driver) using Vector Microsar stack, Vector Davinci tools and AURIX TriCore microcontroller for LuK.

Flextronics Automotive GmbH Filderstadt Jun 2016 – Oct 2017
Software Architect
Responsible for the development of several SW components to support projects using PowerPC and STM8 microcontrollers.

- Developed and integrated DCDC regulation and supervision components for 12V-48V DCDC converter project (PowerPC).
- Created Canoe simulation and control for optimization of PID parameters for DCDC converter.
- Created Touch-recognition SW driver library for touch-based system using both STM8 and PowerPC microcontrollers as well as PC validation tool for touch recognition.
- Participated and supported in the development of MPM (Multi-Purpose-Module) project a general purpose computer module for special vehicles that acts as well as a gateway. Supported in new feature implementation, release creation, as well as performing Can DiVa testing.

Altran GmbH Germany - Bosch GmbH Weilimdorf Jun 2015 – May 2016
Lead Consultant
Project leader responsible for ePDU project development, a 48V power unit distributer, based on AUTOSAR 4 and PowerPC architecture.

- Configured and generated all AUTOSAR driver layer components using Bosch specific tool (BCT).
- Developed CAN matrix / CAN bus specifications for ePDU system.
- Developed restbus simulation system using Canoe.

- Developed application specific IC (ASIC) complex drivers for specific project components, integrating and reusing AUTOSAR drivers.
- Developed and implemented the application architecture for the ePDU ECU.

Altran GmbH Germany - Itron GmbH Karlsruhe Jan 2015 – Jun 2015
Consultant
Supporting Itron GmbH in developing ISMPv2 Project, a complex gas meter with multi-nation requirements for 3 different wireless broadcast protocols, and extremely tight power consumption constraints.

- Performed static analysis for code and provided plan for MISRA compliance of the code (50K loc).
- Planned and executed testing for over the air bootloader with specific instrument protocol (COSEM).
- Created automated overnight bootloader testbench for analysis of issues with over the air bootloader.

Valeo Egypt Mar 2011 – Dec 2014
Software Manager
Managing ITC team, responsible for TCM (Top Column Modules) development, a car component with safety critical requirements (ISO26262). With an exposure to different world class car makers with full-featured TCM projects for Daimler, BMW, VW, Renault, and Volvo.

- Ramped up the team from 7 to 34 engineers in 2013.
- Increased team scope from 2 testing activities to cover the full V-cycle (10 different activities).
- Managed team budget on a yearly basis, (1.3M Euro).
- Moved full testing activities for Volvo SPA (A full-featured TCM project) to Cairo.
- Moved activities of VW projects completely to Cairo.
- Lead the development and testing of ZF ELS (Heavy duty transmission selection lever for trucks) completely in Cairo.
- Performed structuring of the team in order to achieve efficient team performance and communication.
- Responsible for performance assessment and annual appraisal interviews for all team members.

Valeo Egypt Sep 2008 – Mar 2011
Team Leader
Leading, VLS (Valeo Lighting Systems), based in Bobigny France. I was also held responsible for an organization-wide role, namely, management of training program for new-comers joining Valeo Egypt.

- Lead and support team members (3 engineers) to fulfill development and testing tasks for TriXenon project.
- Performed and supported team in porting of standard AUTOSAR modules for usage with VLS products, especially, using Cosmic compiler.
- Supported team in performing of unit testing, and running static testing tools, QAC and Polyspace.
- Participated in performance assessment of team members and annual appraisal interviews.

Valeo Egypt May 2006 – Sep 2008
Principal Software Engineer
Worked with BASIS team, a team developing AUTOSAR components. Was responsible for development and testing of DET, SPI driver, and SPI manager components. Lead a team of 3 engineers for Valeo Electrical Systems (VES), Creteil France. Lead a team of 3 engineers for VSDS (Valeo Switches and Detection Systems), Stuttgart, Germany

- Developed a standardized AUTOSAR component, DET, targetted for reuse on different microcontroller platforms.
- Developed and supported team members for developing a basic software layer for Freescale HCS08 microcontroller in AUTOSAR standard.
- Supported the team for performing static testing and code analysis for other projects, including running QAC and Polyspace static analysis tools.
- Developed and tested a video recording and playback tool using Microsoft Visual C++, and Microsoft DirectX technology.

MGD Computer Systems Jun 2005 – Feb 2006
Development Engineer
MGD computer systems was specialized in e-learning software systems. Was responsible for development of e-learning and content management systems. Development was done under Microsoft Windows, using Visual Basic and Visual C# .NET systems as well as DirectX technology. Developed licensing systems as well for several different products.

- The development of a database multimedia application for e-learning systems using Visual Basic.
- The development of an e-learning library using Visual C#.
- The creation of a simple 3D Machine simulator using DirectX 9.0, and Visual C++.
- The creation of Internet Explorer BHO (Browser Helper Object).

SysDSoft May 2003 – Aug 2004
Development Engineer
Held responsible for development of testing environment for the Class 5 switch project. Developed TCL testing framework to automate testing of the developed switch components using TCL language. All development was done under Linux. Prepared graphical demos for the switch project using Tk.

- Mixed C/TCL development for automation of class testing for switch components.
- GUI development for demos using Tk under Linux.
- Developed automatic code generation tool using TCL.
- Development of C++ under Linux.

Mentor Graphics Sep 2001 – Oct 2002
Development Engineer
Participated in the creation of GUI and libraries for eldo analogue simulator. Was part of EDTB (Eldo Design Toolbox) product. Experience in development under Sun Unix / Linux platform independent code. Extensively used TCL/TK script language including building libraries (shared objects) for extension of the TCL language. Very good knowledge of C/C++ development under Unix.

- TCL/TK Experience of developing platform independent GUI applications especially Unix/Linux operating systems.
- Mixed C/TCL development of waveform post-processing libraries for eldo simulator.
- Very good experience developing Unix shell scripts for automation of tasks.
- Support of Mentor Graphics analogue simulation tools (Eldo, Simpilot, and OpSim).

EDUCATION

MSc., Electronics and Communications Engineering
Cairo University - Faculty of Engineering May 2006

BSc., Electronics and Communications Engineering
Cairo University - Faculty of Engineering May 2001

LANGUAGE PROFICIENCY

German : Fluent
English : Fluent
Arabic : Native