

## Mike Warner MIET

### Skills and Experience

- Over 11 years of experience in developing and debugging MISRA C and Assembler embedded code in safety critical systems at application and base software levels.
- Over 5 years of experience of leading teams, task planning and work allocation.
- Experience of communications protocols including CAN, LIN, SPI, IIC, I2S, APIX, Ethernet, UART and PLC (power line communication).
- Experience in hardware design and manufacture for automotive applications including use of test tools (multimeters, oscilloscopes, logic analysers).
- Experience in C++ development for Windows Applications and within an RTOS.
- Extensive knowledge of software tools including IBM RTC, DOORS, Rhapsody, Enterprise Architect, PTC Integrity, Vector CANalyzer, CANape, CANoe and VectorCAST, QA Systems Cantata, PC-Lint, PR QAC, Microsoft Visual Studio, Altium Tasking, Green Hills MULTI and others.
- Familiar with many different microcontrollers including NXP i.Mx6, Renesas v850 and RH850 series, Infineon Aurix series, PIC microcontrollers.

### Employment History

22/08/2016-Present

#### Nippon Seiki (Europe) B.V. – Principal Software Engineer

- Supporting the software engineering manager in running the software department.
- Working on instrument panel clusters and head up displays for different OEMs.
- Responsible for leading the software team for several different projects at different times, working with technologies including ARM processors, TFTs, Real Time Operating Systems (Green Hills INTEGRITY) and AUTOSAR. This includes planning, technical support and task management for a team of up to 17 engineers.
- Responsible for the initial low-level software work of bringing up the hardware and getting it to a state where data is shown on the TFT, ready for other engineers and external companies to work with.
- Implementing process improvements to existing workflows.
- Often solely responsible for interviewing permanent and contract software engineers and advising management on potential candidates.
- Performing hardware reviews on new hardware and hardware changes, ensuring both compatibility and optimal performance from a software point-of-view.
- Liaising with the systems team to agree on software content for each monthly software release.
- Meeting with customers where necessary to discuss releases and fault find, including visits to customer sites.

01/11/2011-29/07/2016

#### ZF TRW – Senior Software Engineer

- Working on electric power steering systems for several OEMs.
- Started as a software engineer working on the application code in an AUTOSAR-type environment, after 16 months was promoted to senior software engineer and shortly afterwards moved to the base software team.
- Writing embedded MISRA C in an ASIL-D environment implementing customer, systems and hardware specifications and performing peer reviews.
- Base software team lead – responsible for planning base software tasks, co-ordinating a team of varying size between 3-8 engineers. Also responsible for porting motor control and driver software into a braking application and advising an external team on integration.
- Interfacing with and advising the hardware team on new designs and discussing hardware-related diagnostics.
- Responsible for unit test implementation including choice of tools and work instructions in accordance with ISO26262.

04/09/2007-28/10/2011

#### Haldex Brake Products Ltd – Software Engineer

- Working on electronic braking systems and related products for lorry trailers.
- Started out as an industrial placement student between years 2 and 3 of university, placed within the hardware team I was responsible for performing ESD tests, designing and reviewing hardware and PCB layouts, and ended up designing my own 'soft-docking system' – capable of detecting the distance in meters from the rear of the trailer to the dock, and applying the brakes when the lorry is close enough. This project included designing both the hardware and software and using technologies including ultrasonic sensors, CAN, DAC, and PLC. At the end of my placement year there were no vacancies available for me to be kept on in

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the hardware team, but having developed a large amount of software during my placement then I was offered sponsorship through my final year of university followed by full-time employment within the software team.

- My final year university project was carried out with Haldex, where I created a touch screen J1939 CAN bus analyser, capable of detecting all ECUs on a lorry and showing them diagrammatically, ECUs could then be further interrogated for DTCs and DTCs cleared if required. This project was awarded 'best final year project' by the university.
- After graduation I started full-time with Haldex where I developed and maintained software in C and C++ for a range of products, mainly brakes but also Windows diagnostic tools and interfacing hardware using a USB dongle, which I created a Windows based updater application for.
- I was technical leader for a project - representing the engineering team at management meetings and ensuring engineering activities were completed to plan.

## Education & Qualifications

**17/03/2019-17/03/2022 PeopleCert**

PRINCE2 Practitioner

**26/09/2005-01/06/2009 Aston University**

BEng Electronic and Electrical Engineering. Achieved 1<sup>st</sup> Class Honours

**01/09/2003-30/05/2005 Dudley College**

BTEC National Diploma Electronic and Electrical Engineering. Achieved DMM

## Relevant Training

Date	Duration	Training Provider	Course Title	Overview
01/04/2019	4 days	Vector	MICROSAR	A 4 day course on AUTOSAR and how to configure the MICROSAR operating system.
13/02/2017	3 days	CRaG Systems	UML and Enterprise Architect training	An introduction to UML and designing software architecture in Enterprise Architect.
January-February 2017	4 days	KPIT	AUTOSAR and KSAR training	An introduction to the AUTOSAR software structure and how to use the KSAR tool.
25/10/16	2 days	Rightware	Kanzi Introduction	An introduction to the Kanzi tool, how to design instrument clusters in Kanzi and interfacing to it using Visual C++
November 2015	3 days	Vector	Introduction to VectorCAST	An introduction to the VectorCAST unit test tool.
May-November 2015	5 days	Achieve Global & ZF TRW	First Level Leadership	Learning the principles of genuine leadership.
12/06/2014	1 day	TRW	PTC Integrity Training	An introduction to PTC Integrity.
14/05/2014	2 days	TRW	IBM Rational Rhapsody 8 Training	An introduction to Rhapsody 8.
28/02/2011	4 days	Embed	Model based design for automotive systems	An introduction to Matlab, Simulink and Stateflow for automotive systems.

## Personal:

- I am a hardworking individual who is quick to learn and apply new skills. I lead by example and always ensure that I have good knowledge of tasks I am working on and managing.
- I understand the necessity of keeping up to date with engineering technologies and am a member of the Institute of Engineering and Technology.
- I am always looking forwards in my career and am a member of the Chartered Management Institute (CMI) with the aim of working in a managerial position in the near future.
- In my spare time I enjoy going to the gym and playing musical instruments and am involved in the band at my local Church, regularly playing at Sunday services.

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