**James Owen**

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# Profile

Dynamic, results-generating **technology management professional** with excellent experience of directing software and hardware teams, technical personnel and line management to exceed project and technology goals and objectives. Offers extensive industry knowledge, practical experience in software, processes, profit & loss responsibility, managing concepts & production activities, employee relations & communications.

# Achievements

* **Strategic approach**: created a unified software platform development and prepared the building blocks for functional safety in time for market demand. Resulted in increased revenues.
* Responsible for **financial planning and control** of the engineering development, for both software and hardware products, and monitoring effectiveness of the business models employed.
* **Technology development:** Introduced and directed automated testing environments to reduce overall cost of ownership and accelerate time to market of solutions to customer.
* **Leadership**: operated and directed teams of up to 200 engineers in multiple geographies, under a unified platform **programme management** with multiple parallel projects, which encompassed a common development approach and re-use to achieve effort savings and accelerate time to market.
* **Production management** experience for multiple solutions / products in the field, including support and customisation services in combination with onsite support as appropriate in multiple geographies
* **Technology experience** in multiple domains and fields such as Consumer, Industrial, Automotive applications including Linux, RTOS, Functional Safety, Advanced state-of-the-art devices, complex development environments and hardware in the loop verification systems.
* **Achieved** the first (global) functional safety software product against ISO26262, which was subsequently audited by end customers and formed the basis for global development standards
* **Strong client facing communication skills**, with the ability to build lasting relationships and trust at customers for technology delivery and support.

# KEY Skills

* **Languages: Software** C, C++ & Python plus experience of Java, C#, .NET, SQL, Databases and Matlab/Simulink. **Hardware** - VHDL/Verilog, FPGA, MCU, SoC, Interfaces, Analog, Digital & PCB
* **Teams**: Large software teams (up to 200) & Hardware teams (up to 10), including the management, recruitment, development & mentoring. Extensive Global & Offshore team operational experience.
* **Projects/Products**: Multiple Software & Firmware/Hardware Products. Including Roadmaps, Specification, Development, Management, Parallel Projects & Platform Development.
* **Tools**: JIRA, Mantis, Trac, SourceSafe, SVN, GIT, HIL, PIL, Jenkins, Visual Studio, Netbeans, Eclipse, RTOS, Linux, Unix, LabView, Microsoft Project, Compilers (GCC, IAR, GreenHills, Diab), Debuggers (Lauterbach, Arm, etc).
* **Methodologies**: DevOps, Agile, BDD, TDD, Waterfall, ISO26262/IEC61508, CI, CD, Automation, SPICE, CMMI, ISO9001.

# Career History

## 2015 - present Chilli Squid Limited, London Director

*Technology consultant providing solutions and consultancy to OEM, Tier1 clients operating in London, Japan, Germany and Vietnam.*

* Autonomous Driving Tier1 & OEM activities including algorithms, SoC / Accelerator evaluation, Toolchain analysis and recommendation reports on technologies.
* Automated Testing System from specification to implementation for Tier1 electric vehicle ECUs, reducing software testing time from 3 months to 1 day for ongoing ECU updates.
* Tier1 Software Cross Platform definition including golden specifications, specification traceability to OEM requirements. Applications included Inverter, Battery, Engine and Transmission ECUs.
* Offshore development centre improvement programme to increase effectiveness of new and existing engineers. Included creating reports and progress to both the Head-Quarters and the local Managing Director on a quarterly basis. Resulted in increased in productivity of the engineering output and engineering output defects were reduced significantly.

## 2012 - 2015 Renesas Electronics Europe GmbH, Düsseldorf Senior Manager

*Expatriated to Renesas Germany (Dusseldorf) in October 2012. Responsible for European automotive software and solutions. The role included guiding business development for both SoC and MCU solutions.*

* Directed a team of 200 consisting of marketing, support and development activities comprising of 10 direct, 60 indirect reports and a 130 strong dedicated offshore team.
* Extensive customer facing experience including presentations, workshops, design-ins at lead Tier1 and OEMs for body, powertrain, cluster, infotainment, ADAS / Autonomous Driving application areas.
* Enhanced ecosystem partnerships in order to further enhance the product roadmap and enable rapid customer integration & system bring up.
* Increased software related revenues by applying updated business model for both products and services and establishing a robust license framework with legal and sales departments.
* Technically directed a unified product platform approach, which encompassed the varying automotive domain requirements and abstracting the underlying hardware in order to optimise resources and costs.
* Implemented Functional Safety ISO26262 compliant software process, team culture & resulting products, which was acknowledged by customers during onsite audits (1st in the global organisation)
* Introduced and directed state-of-the-art agile, design, verification and validation techniques in order to increase quality to customers and time to market.

## 2005 - 2012 Renesas Technology Europe Limited, Maidenhead Senior Manager

*Responsible for all aspects of solution development for automotive application areas incl. AUTOSAR (Body, Chassis, Powertrain domains) and RTOS & Linux based (Car Audio, Information Systems, ADAS)*

* Built a team of 40 highly skilled engineers and a dedicated 70 strong offshore team by employing strong leadership skills and by capitalising on opportunities.
* Developed a brand image for the department, and myself, as a highly respected and reliable partner, able to deliver innovative, creative and high quality projects on time.
* Extensive financial understanding of budgets, tracking execution and business models, which were utilised to operate a combined product & services operation.
* Executed multiple custom projects in Europe, Asia and USA against industry standards such as CMMi, SPICE and ISO9001.
* Installed production software process and monitoring techniques that were adopted by other departments globally, and tested in multiple customer audits with excellent feedback.
* Pioneered and created an effective offshore outsourcing model delivering cost effective developments with high quality and low administration overheads.
* Created a novel hardware-in-the-loop automated testing system to enable rapid development and extremely high defect detection rates from concept to implementation.
* Established global OEM Car Audio business model and dramatically increased market share outside of Japan domestic market by creating a global solution combined with multi-site development teams to control costs and gain synergy between multi-national and regional customer demands.
* Founded a Linux team to service business demands in various technology areas and in particular the Infotainment & ADAS domain utilising key technologies including audio/video processing, Ethernet AVB, Graphics including OpenGL, OpenVG and OpenCL, kernel and BSP and packaging.

## 1999 - 2005 Hitachi Micro Systems Europe Limited, Maidenhead Group Manager

*Responsible for MCU & MPU tool products and lead customer solution development & support.*

* Executed a high-profile project for the first BMW 5 Series iDrive system. Early prototype preparation, software development & management including 3rd Party vendor handling. Responsible for onsite bring-up at the customer sites for prototype and production deliveries.

## 1998 – 1999 Barco Communication Systems Limited, Reading Principal Engineer

*Responsible for cable head end equipment development and a team of engineers.*

* Lead developer for MPEG-2 DVB Transport Stream De-scrambler using PowerPC and 8032 processors, Temic DVB ASIC, SDRAM, Flash and PC Card technologies.

## 1994 – 1998 Hitachi Europe Limited, Maidenhead Principal Engineer

*Responsible for system specification, architecture, implementation, simulation, software/hardware integration and production hand over on a number of projects.*

* Developed emulators for 32bit RISC micro controllers with extensive use of FPGA, Hardware & Software Modelling, included leading the GUI and Firmware software development teams.
* Created concepts for application solutions in industrial, consumer & automotive domains and prepared reference solutions to enable engagement with a wider customer base in order to increase revenues.

## 1992 - 1994 Loughborough Sound Images, Reading Design Engineer

*Responsible for hardware and software development on a number of bespoke projects.*

* Designed, installed and commissioned high-performance DSP solutions for various applications including spectral analysis (Industrial), Sonar (Defence), Magnet control (CERN).

# Education

BEng (Hons), Electronic Engineering (2:1), University of Westminster, London

3 A Levels (Physics, Mathematics, Computer Science)

O Levels including Maths and English, Dubai College, Dubai, United Arab Emirates

# INTERESTS

German (studied to approximately A2 level)

Football, Cycling, Pilates, Yoga, Fitness Training & Windsurfing