Description: Applying simple yet well-disciplined engineering principles so that software can be developed to the highest standard yet always as a known, quantitative activity. I developed Virtual State Machine Technology (VSMT). VSMT was developed as a Rapid Application Development Methodology with fully embedded OS. <br><br>  
  
I am what you might call a seasoned engineer who has worked in the industry for over 30 years, at the leading edge of Business and Technology. My experience and expertise has been gained by helping companies in the UK, Europe and the USA develop and enhance their product ranges. I can provide expertise to any development project that utilises embedded microprocessor technology. I have experience in a wide range of languages and hardware, and have been involved in the following product development areas for many leading-edge consumer electronics and high-tech engineering companies. <br><br>

<b>**Development Experience** </b><br>  
real-time, multi-tasking operating systems |\*| firmware |\*| device drivers |\*| BIOS/board start-ups |\*| hardware abstraction layers |\*| bare-metal programming |\*| software architecture |\*| technical auditing |\*| project management of full development lifecycle |\*| SW porting and reverse/re-engineering |\*| smart card OSs |\*| flash memory drivers |\*| SPI and I2C drivers |\*| ATM/broadband ADSL drivers |\*| frame relay firmware |\*| firmware for SDH/PDH multiplexers |\*| ASIC SW development |\*| transmission equipment firmware |\*| flight data recorders |\*| character and packet based communications protocols |\*| embedded OS and BIOS development |\*| methodologies and standards <br><br>  
  
<b>**Product Areas** </b><br>  
security and payment systems |\*| broadband/ATM infrastructure |\*| GSM/GPRS |\*| mobile radio systems |\*| credit/smart card services |\*| passive optical networks (PON) |\*| set-top boxes |\*| telecommunications & control systems |\*| embedded consumer & electronic products |\*| electronic point of sale equipment (EPOS) |\*| railway signalling & control systems |\*| broadcasting & text services |\*| aviation & flight systems |\*| ticketing systems |\*| teletext |\*| voice and data PABXs |\*| network management systems |\*| embedded systems |\*| voice mail & messaging <br><br>

<b>**Standards**</b><br>  
MISRA C |\*| CMSIS |\*| AGILE/SCRUM |\*| IEC 61508 |\*| ISO90001 <br><br>

Download a copy of {my current CV} with full project details.