

CHRIS SUTTON

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Passionate engineer with keen interest in embedded engineering and system design. I have been working in a senior technical support role at IBM for 12 years supporting embedded design tools. I work on hardware and embedded projects in my spare time. I love to learn and explore new technology.

Skills

- Embedded C/C++ firmware development including hardware peripheral drivers, user interfaces, digital signal processing, RTOS, serial communication and middleware integration (*Hobby*).
- Object-orientated programming/design using UML/SysML (*Professional*).
- Microcontroller/microprocessor development using SWD/JTAG with ARM Cortex M and A series (*Hobby/Professional*)
- Electronic Engineering, PCB schematic and layout design using Kicad (*Hobby*)
- Embedded Linux bring-up using Buildroot and Yocto (*Hobby*)
- Application development and scripting using Java and Python (*Professional*).
- Git repository and documentation (*Hobby/Professional*).

Projects

DSP Function Generator with Cortex-M4F and C (hobby)

<https://www.bitshiftmyrobot.com/2021/04/06/dsp-function-generator-cortex-m4/>

DSP Guitar Pedal with Cortex-M4F and C++ (hobby)

<https://www.bitshiftmyrobot.com/2021/04/06/dsp-guitar-pedal/>

STM32MP1 Embedded Linux with Yocto and OpenSTLinux (hobby)

<https://www.bitshiftmyrobot.com/2021/04/08/stm32mp1-embedded-linux-breakout-board/>

SMBUS Touchscreen controller for 600W HP Server PSU with FreeRTOS (hobby)

<https://www.bitshiftmyrobot.com/2021/04/25/touchedscreen-controller-for-600w-hp-server-psu/>

Using IBM Rhapsody with GNU/LLVM toolchains on Linux/Darwin targets (professional)

<https://www.ibm.com/support/pages/using-rhapsody-gnullvm-toolchains-linuxdarwin-targets>

Using IBM Rhapsody C/C++ with the Raspberry Pi (professional)

<https://www.ibm.com/support/pages/using-ibm-rhapsody-cc-raspberry-pi>

Experience

IBM	Senior Technical Support Engineer	2008-Present
	<ul style="list-style-type: none"> - Provide technical support for IBM Rhapsody tool: <ul style="list-style-type: none"> - Adapting embedded targets - C/C++ code generation - UML modelling/System design - AUTOSAR, AutomotiveC, Simulink, UPDM - VxWorks, GCC, MS Visual Studio - Provide technical support for IBM Jazz products <ul style="list-style-type: none"> - Rational Team Concert, Rational Publishing Engine, Integration with CI tools such as JIRA/Jenkins/Gitlab - Advise support teams in L3 capacity on above issues related to the Rhapsody tool. - Customizations and integrations for Rhapsody and embedded Linux, ARM environments, Microsoft Visual Studio, GNU and LLVM toolchains. - Publishing white papers, tutorials and troubleshooting guides. 	
Telelogic	Technical Support Engineer	2006 - 2008
	<ul style="list-style-type: none"> - L2 Technical Support for IBM Rhapsody and IBM Continuous Integration products. 	
C4L Ltd	Junior Technical Engineer	2005 - 2006
	<ul style="list-style-type: none"> - Developing VoIP telephony systems. 	
Siemens	Web Developer (Internship)	2002 - 2003
	<ul style="list-style-type: none"> - Developing web-based platforms for businesses. 	

Education

Bachelor of Science (BSc) Computing Bournemouth University 2001 – 2004

Hobbies and Interests

- Electrical and embedded engineering
- Playing music (bass/guitar/drums)
- Hiking