

EMBEDDED SYSTEMS AND FPGA DESIGN

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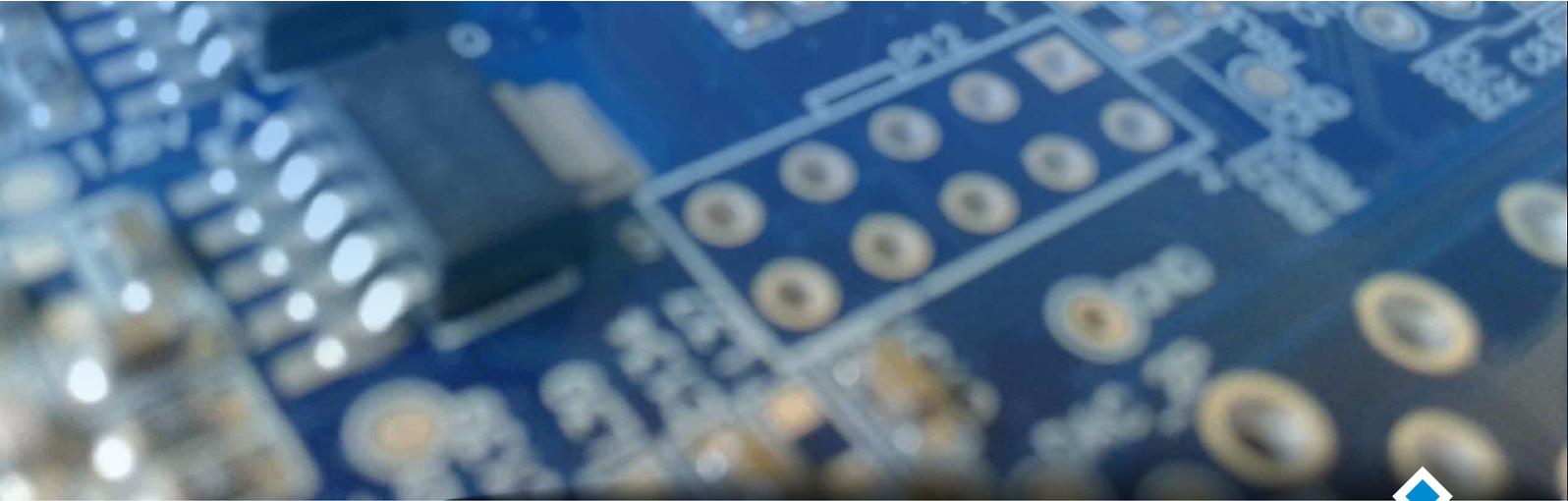
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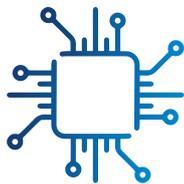
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SERVICES



ENGINEERING



TRAINING

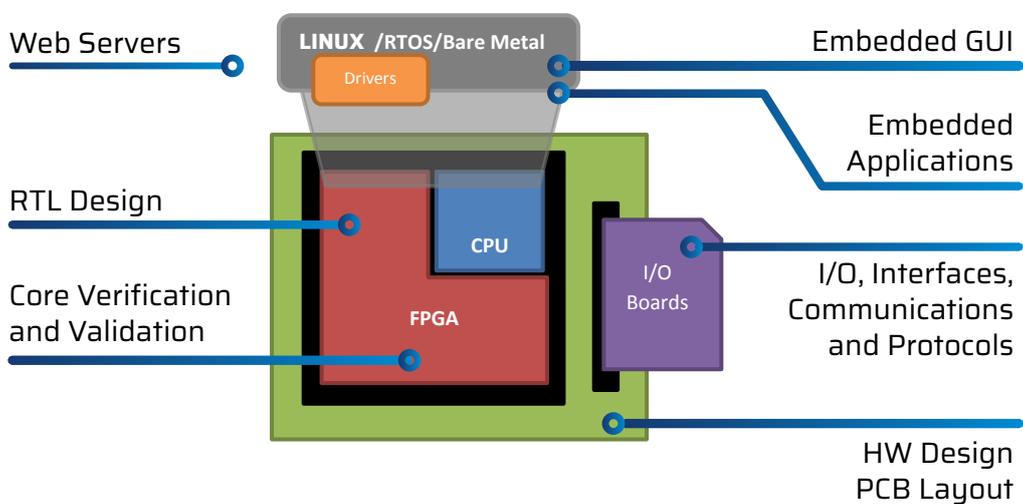


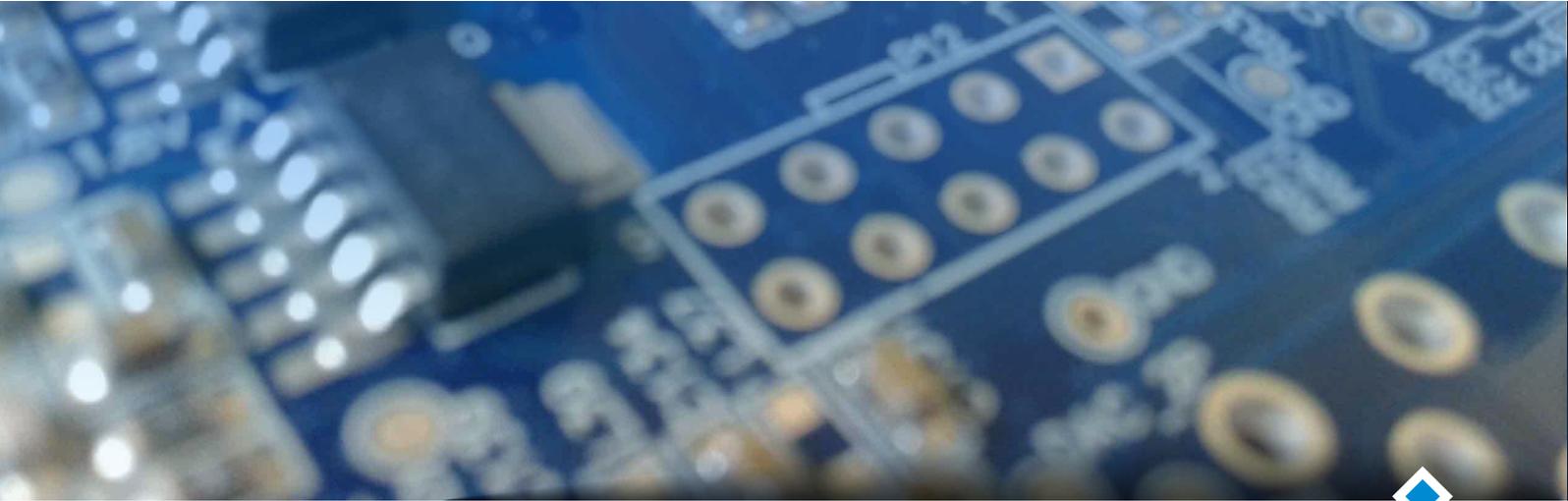
CONSULTING

ENGINEERING SERVICES

This service gives our customers access to a skilled workforce to add technical capabilities to their own team. This allows our customer to have access a highly skilled engineering team for a certain amount of time or for a given project. Our engineers have worked for over 10 years in successful projects with the latest technology in hardware, software, DSP, and FPGA design.

Our areas of expertise are summarized in the following image.





CONSULTING

We can provide consulting and expert advice in our areas of expertise to complement your own design team. Emtech's more than 10 years of experience working as a team for different projects provides a knowledge base to assist our clients effectively with their projects. We are an ideal partner to complete complex embedded systems projects successfully.

TRAINING

We can provide training in different areas of embedded systems, including embedded software and Linux or FPGA design and verification.

EXPERIENCE

SOFTWARE AND FIRMWARE DESIGN

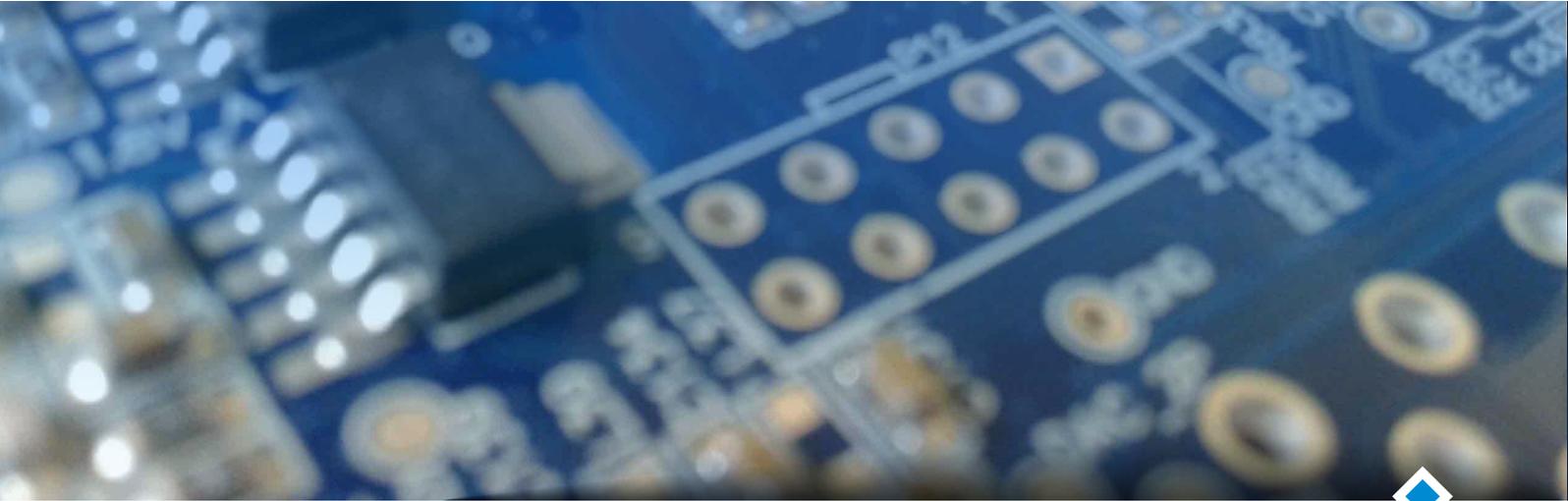
We have experience in software development using operating systems or bare-metal designs. Our work ranges from C/C++ and assembly coding for different microcontroller and processor architectures to firmware design, embedded Linux tailoring, API and driver development and using different RTOS to provide the solution you need.

We can also develop supporting PC-based applications for Linux or Windows. Through our partners we can also provide complete host system software design services if needed.



- Embedded Applications
- Embedded Linux
- Embedded GUI
- Embedded Web Servers
- Real Time Operating Systems (RTOS)
- Communications and Protocols
- Bare-metal Software Design





FPGA AND SOC DESIGN AND VERIFICATION

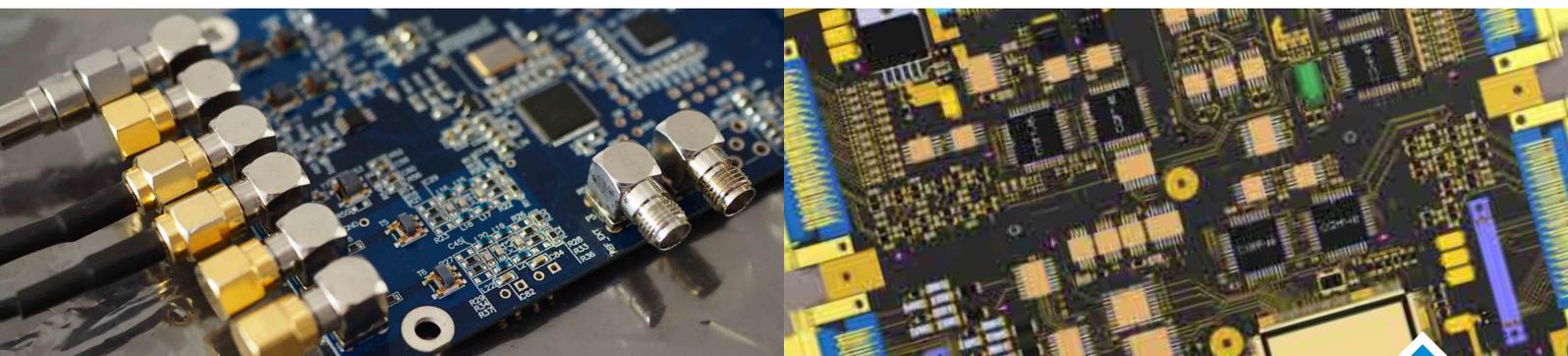
We have experience in diverse FPGA systems and core designs and verification. Projects we have finished successfully range from satellite control and communications cores to complex digital data processing systems and complete DSP architectures. We have designed and reviewed cores for space systems based on flight-grade FPGAs from Microsemi as well as complex DSP and data processing cores on high-end Xilinx and Altera devices.

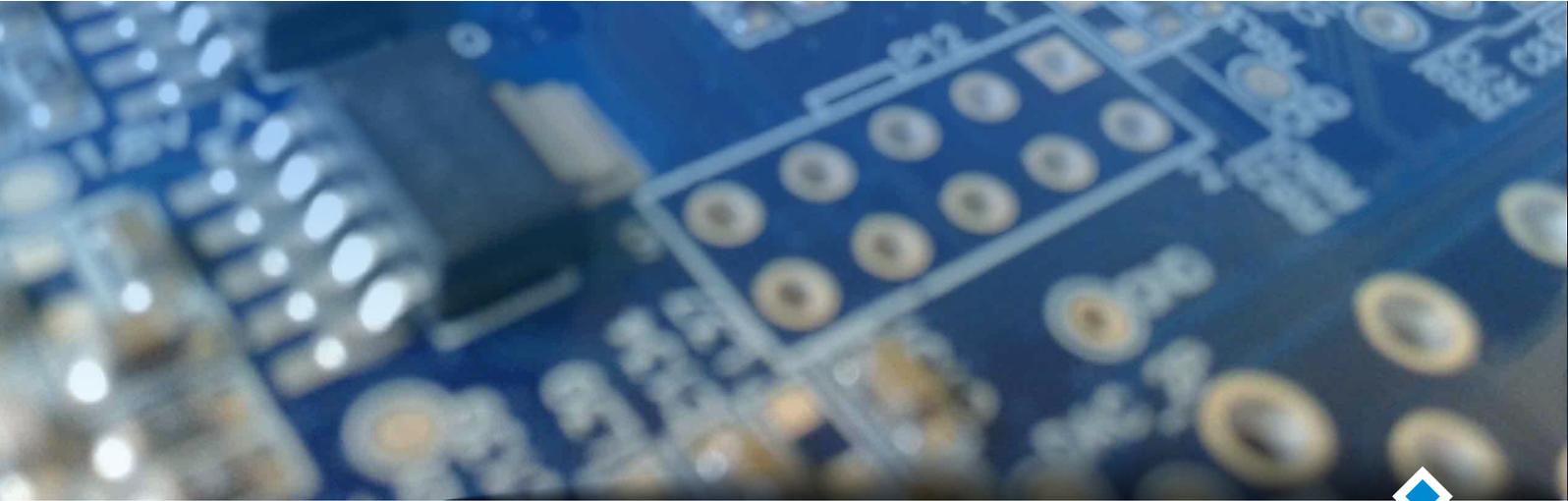
DSP

We are proficient in DSP modeling and implementation on different processors and FPGA. Implementation of DSP algorithms on FPGAs has the advantage of processing large amounts of data in parallel, allowing for higher throughput than DSP processors at the same clock frequency. We have worked on several projects involving DSP system modeling and design for high speed DSP. Our experience includes algorithm modeling and implementation and validation for systems based on FPGA devices with high speed ADC and DAC interfaces and ambitious data throughput requirements.

HARDWARE DESIGN AND PCB LAYOUT

Our experience in hardware design includes the design, bring-up, debugging and documentation of different boards and systems, including multi-layer PCBs with FPGAs and microprocessors, high speed digital boards, controlled impedance designs, mixed signal and the use of PCB techniques for signal integrity.





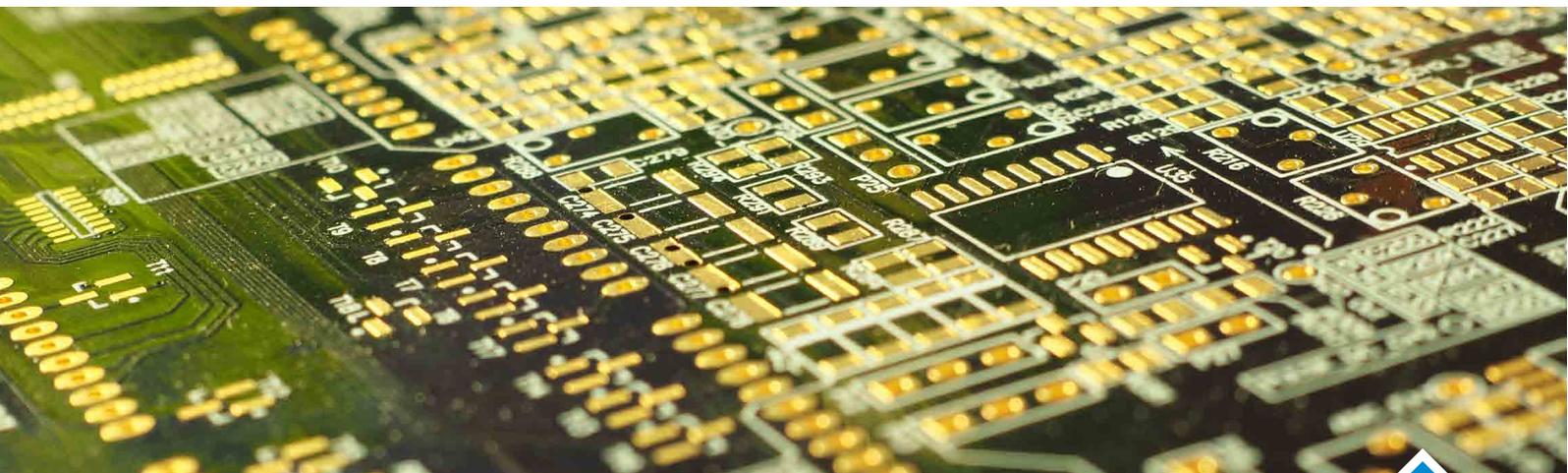
ABOUT US

Many modern “Embedded Systems” contain complex electronics with sophisticated software and hardware. They include complicated functionality and implement elaborate algorithms, data processing and user interfaces.

These systems require many hours of multifaceted engineering to develop, debug, bring-up and test. Bad planning, wrong technical decisions or inexperienced developers can translate into unacceptable delays for a project. We can help you in this process, by providing expert advice, training or engineering development and programming for your project.

We are a team of experienced engineers dedicated to high quality embedded systems and FPGA design, from specification and algorithm modeling to hardware and software design, from high level simulation to RTL design and core verification, from systems requirement definition to bring-up and operation support. Our work ranges from expert advice and training to complete development of complex electronic systems.

We are committed to our customers and partners, working together to understand not only the technical challenges, but their business and end use of the design in order to find the best solution to their needs in a timely and efficient manner.





CONTACT US

Please see our attached brochures for information and samples of past projects. Send us an e-mail or check our web page for more information.

CONTACT INFORMATION

Please feel free to contact us with any questions or comments regarding our services, and how we may be of help.

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