

Software Engineering & Project Management

As projects evolve, it is easy to lose sight of the long range goals while focusing on short term objectives. **Eager Consulting** can help you develop a project plan which meets both short term and long term goals, and at the same time improves quality and delivery schedule.

Eager Consulting can work with your Marketing and Development staff to clarify and prioritize objectives, identify deliverables, and produce a project plan which best meets your goals. Or we can review your project plans and recommend areas where improved technologies can be used to leverage your existing investment more effectively. We can implement all or part of your project or we can work with your staff to insure that goals are achieved.

Technical Documentation

Quality documentation is based on understanding both the product and the users in depth. Concise prose, clear examples, understandable graphics, and logical organization produce high-quality documentation.

Eager Consulting can document complex hardware and software in a way that supports maintenance and enhancement of your products, or enable technology transfer to your customers. We have produced documentation for such diverse applications as image processing microarchitectures, debug data formats, real-time operating systems, and Java microprocessors.

Michael J. Eager is the principal consultant and owner of **Eager Consulting**. He has over twenty years experience in software development, ranging from large mainframes to bit-slice microcode in many languages and on operating systems from Solaris to VRTX to Linux. He has served on the ANSI/ISO C++ Standards Committee, the ARM and Embedded Power PC ABI Committees, and is chair of the DWARF Debugging Standards Workgroup of the Free Standards Group. His many years experience in designing and delivering quality software has helped several companies develop and deliver quality products.

Please visit our web site
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Eager Consulting

Quality Software Development
for Embedded Systems

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Eager Consulting can provide your company a wide range of consulting services to assist you in the following areas:

Software Development
Embedded Systems
Development Tools
Training and Education
Software Engineering and
Project Management
Technical Documentation

Software Development

Eager Consulting has the expertise and experience to develop a wide range of software products for you or to add new functionality to your existing products. If there is a new feature which you would like to see in your products, but you lack the staffing or technical background to complete the task, call us: we can help.

Embedded Systems

Eager Consulting has long experience in the embedded market. We offer the following:

Embedded system design and development
Operating system development/porting
Embedded Linux development
Linux/Windows integration
Run-time language support
Design for maintainability
Real Time Operating Systems
Hardware/software integration

Development Tools

A craftsman is known by his tools. While it is possible to develop good products with poor quality tools, robust tools can increase staff productivity and make your products serve your customers better. **Eager Consulting** has many years experience creating a wide range of development tools:

Compilers

Compiler development (C, C++, Java)
Targeting new architectures or OS
Testing and bug fixing
Performance improvement
Standard conformance
Optimization
Language development
Run time implementation

Assemblers and Linkers

Object file support: a.out, ELF
Debug support: stabs, DWARF 1/2/3
Asm or link-time optimization

Debuggers

New architecture support
New object/debug format support
Debugger design
Integration with OS/target/CAE tools

Simulators

Instruction set simulators
Architectural simulators
Cycle-accurate simulators
Integration with debugger

Utilities

Support debugging or documentation
Configuration management

Automated Build and Release Systems

Training and Education

Both employer and employee benefit from an on-going program of employee development and training. New technologies and techniques can improve the functionality, performance, and reliability of your products.

Even engineers who have several years experience benefit from a refresher course on the programming tools which they use every day. Learning “on-the-job” can often be disjointed and scattershot. A review course highlights new techniques, identifies potential problem areas, and solidifies understanding of the subject.

Few software engineers have ever had a course in software engineering. Most have learned the craft of programming by reading code that was written by their predecessors, who were often self-taught. This perpetuates poor techniques which lead to longer development time, longer debug time, more difficult maintenance, and more quality problems for your customers. Training in the techniques of software engineering can improve the productivity of your development staff.

Eager Consulting can present one of our previously developed courses, or design a course to meet your specific requirements.

Three to five day courses:

C, C++, Java language programming
Software engineering
Computer architecture
Software development methodologies
Source control
Linux tools: shell, perl, awk, utilities