



MOHAWK VALLEY APPLIED TECHNOLOGY CORP.

SOLUTIONS

MVATC

YOUR PARTNERS IN PROGRESS

Software Development and System Architecture: We Can Help

Mohawk Valley Applied Technology Corporation (MVATC) is pleased to announce that through our Manufacturing Extension Partnerships, we now provide a wider range of computer hardware and technology-based services. New York State businesses throughout the Mohawk Valley Region can take advantage of the skills, knowledge, and experience of engineering experts specializing in software development and system architecture.

Software Development encompasses everything from the conception of the desired software to its final manifestation. It involves developing different kinds of software applications and systems, and includes research, new development, prototyping, modification, re-use, re-engineering, maintenance, and source code writing and maintenance.

MVATC can help develop and train your production planning personnel and related office functions to determine the requirements of an appropriate software package, and select one that meets budget and operating criteria. We will train the appropriate company personnel on how to determine and define the business requirements that best provide your ability to monitor and record critical production data within specified budget restraints, and select software specific to your operating needs. We will help to analyze the problem, perform market research, gather requirements for proposed business solutions, devise a plan or design for the solution, and implement, test, deploy, and maintain the software while providing ongoing support.

This will be translated into a system architecture including the application functional requirements, database and storage requirements, and the hardware environment. We can then choose the best appropriate software to develop your application. We have experience in C, C++, Visual Basic, PHP, Java, MYSQL, as well as the MS Office application development environment. Systems can be developed for Windows, Linux, and Unix operating systems, as well as mobile platforms. Our experience ranges from simple informative web sites to custom sophisticated Internet sites.

System Architecture is a conceptual model defining the structure and behavior of a system. It provides a plan from which products and tools are designed, and hardware and software integrated and ultimately implemented. Multi-faceted systems often require a wide range of disciplines to realize the requirements and may involve a

complex series of decisions based on a wide range of factors that impact the cost, quality, performance, reliability, and extendibility. These contribute to the overall success of the product, tool, or manufacturing system.

MVATC engineers and project managers will fully scope out the project and status of the specifications. After fully developing a set of specifications, we then design a structure to realize the requirements of a product, tool, or complex manufacturing system. Our expertise ranges from hardware, electronics, and mechanics to firmware, system software, databases, and communications and graphical user interfaces. We can specify the devices, networks, interfaces, and applications required to meet your needs. We will define the architecture to support the devices, estimate device costs, develop plans for the design and the prototype implementation, and bring the product or system to fruition.

We hope that our capabilities and expertise can offer solutions to your organization. For more information or to schedule a visit, please contact Cory Albrecht at 315-793-8050 or via email at corya@mvatc.com.

Next month: prototyping, technology assessments, web design, database integration, and more.