

# AN IO MOSAIC SERVICE

## SOFTWARE DEVELOPMENT PROFESSIONAL SERVICES

### OVERVIEW

Engineering Managers understand the challenges involved in maintaining existing software, and introducing new software into an enterprise. To help make your software rollouts successful, ioMosaic's Software Development Professional Services team offers a range of consulting engagements from complete outsourcing to focused engineering and software customization.

ioMosaic's experienced software professionals bring substantial experience in a number of areas of expertise.

### SERVICES

We offer the following services to our clients:

- ◆ Engineering software development outsourcing
- ◆ Customized software development
- ◆ Web-Based Training and Computer-Based Training development
- ◆ Mobile devices software development

### ENGINEERING SOFTWARE DEVELOPMENT OUTSOURCING

Do you have ideas that need to be turned into products? Do you have Engineering and Business processes that need to be automated to reduce the cost of doing business? Do you have existing software tools that need to be rolled out as corporate standards? Do you need extra staff to tackle your problems right now? If so, we can help you make your vision a reality and reduce your time-to-market. You will have immediate access to a highly talented group of consulting, engineering, and technical personnel, skilled in current technologies. Our specialists can assist you by using our software development resources to help accelerate your development and standardization process.

We are available on a per-day or project basis, whichever option best suits your requirements.

### CUSTOMIZED SOFTWARE DEVELOPMENT

ioMosaic's customized software services and support solutions are available to you when our standard products and services don't fully meet your unique



computing and design needs. Together, these customized solutions provide access to information, skills, and tools you require to proactively customize your software, maximize your investment returns, and reduce your overall costs. ioMosaic provides customized services ranging from pressure relief systems to process safety management documentation.

### WEB-BASED TRAINING AND COMPUTER-BASED TRAINING DEVELOPMENT

Web-Based Training (WBT) is an innovative approach to distance learning in which computer-based training (CBT) is transformed by the technologies and methodologies of the World Wide Web, the Internet, and intranets. Web-based training presents live content in a structure allowing self-directed, self-paced instruction in any topic.

Web-based training is an ideal vehicle for delivering training to individuals anywhere in the world at any time. The training can be course-based training where the student learns the concepts at his/her own pace, or simulation-based training where the student is essentially operating a simulation in a game-like scenario to get familiar with a task.

With the tools at hand today and our experienced staff, we can craft highly effective WBT to meet your company's training needs. We can take your existing training modules and make them available as WBT modules. We can develop game-like simulations for training. Given our extensive experience in writing books and developing training in the area of process safety and risk management, we can develop the training content, thereby providing comprehensive turnkey training solutions.



## MOBILE DEVICES SOFTWARE DEVELOPMENT

Handheld devices are the latest wave in technology, and ioMosaic has the personnel and the knowledge necessary to help bring these devices to your enterprise and maximum their potential. From maintenance tracking applications and GPS enabled systems to data gathering and analysis, we can help develop the tools necessary to utilize handheld devices.

We understand that each environment is unique and we can solve issues in both online (wireless) and offline modes.

## CAPABILITIES

ioMosaic has excellent capabilities for the development of custom software. These include building Windows desktop applications, control software applications, knowledge management software, and web application development.

ioMosaic's Software Professional Services organization is Microsoft Certified and has extensive experience in software solutions developed in C++, C#, Java, FORTRAN, and Visual Basic.

## About ioMosaic

Founded by former Arthur D. Little Inc. executives and senior staff, ioMosaic Corporation is the leading provider of safety and risk management consulting services. ioMosaic has offices in Salem, New Hampshire and Houston, Texas.

Since the early 1970's, ioMosaic senior staff and consultants have conducted many landmark studies including an audit of the Trans-Alaska pipeline brought about by congressional whistle blowers, investigation of the Bhopal disaster, and the safety of CNG powered vehicles in tunnels. Our senior staff and consultants have authored more than ten industry guidelines and effective practices for managing process safety and chemical reactivity and are recognized industry experts in LNG facility and transportation safety.

ioMosaic Corporation is also the leading provider of pressure relief systems design services and solutions. Its pressure relief system applications are used by over 250 users at the world's largest operating companies. It holds key leadership positions in the process industries' most influential and active pressure relief system design, and chemical reactivity forums, and plays a pivotal role in defining relief system design, selection, and management best practices.

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### Safety & Risk Management Consulting Services

- ◆ Auditing
- ◆ Calorimetry, Reactivity, and Large-Scale Testing
- ◆ Due Diligence Support
- ◆ Effluent Handling Design
- ◆ Facility Siting
- ◆ Fire and Explosion Dynamics
- ◆ Incident Investigation, Litigation Support, and Expert Witness
- ◆ Liquefied Natural Gas (LNG) Safety
- ◆ Pipeline Safety
- ◆ Pressure Relief Design
- ◆ Process Engineering Design and Support
- ◆ Process Hazards Analysis
- ◆ Process Safety Management
- ◆ Risk Management Program Development
- ◆ Quantitative Risk Assessments (QRAs)
- ◆ Structural Dynamics
- ◆ Training

### Software Products:

**ioXpressKM** (ioXpress Knowledge Manager is a web-based enterprise application for corporate electronic information management).

**SuperChems** (SuperChems is an advanced tool for pressure relief design, consequence analysis, and thermal hazards assessment).

**HAZOPtimizer** is a software product for recording and managing process hazard analysis.