# FRANK TRUYEN

## CEPHAS CONSULTING CORP.

360 East First St., Suite 781 ◆ Tustin, CA 92780, USA


## PROFESSIONAL SUMMARY

Innovative technology management professional with expertise in the analysis, design, implementation and maintenance of complex projects. Successfully conducts strategic technology needs assessments, provides large-scale project management and supports the introduction of leading-edge technologies to deliver improvements in productivity, efficiency and operations.

- Demonstrates unique ability to effectively communicate with both technology and business personnel, bridging the comprehension gap between business and IT
- Able to identify key business improvement issues before instituting tactical action plans; strong ability to bring clarity and resolution to challenging IT problems.
- Skilled in transitioning organizations from a traditional mode of developing software to a service-oriented and component-based approach; strong process implementation and improvement skills
- Effective in motivating, developing and leading teams to deliver optimum performance and quality results.

Technical & Management Strengths:

- Technical Needs Assessment, Project Development, Full Project Lifecycle, RFP, Development / Review, System Configuration, System Implementation, Object Analysis & Design, Technology Rightsizing, Complex Software Development, Performance / Capacity Planning, Pattern-based Design, Troubleshooting / Solutions, Applications Development, Business Process Improvement, Procedures Development, Productivity Improvement, Training / Mentoring, Business Architecture, Technology Evaluation, Vendor Relations, and Reuse Strategies

## TECHNICAL SKILLS

- Programming Languages : Visual Basic, Java, C, C#, C++.
- Middleware : J2EE, .NET, SOA.
- UML Modeling Tools : Enterprise Architect, Rational Rose, Visio, MagicDraw, Eclipse EMF, Borland Together.
- MDA tools : ArcStyler (Interactive Objects) and Objecteering (SOFTEAM).
- Executable UML tools : BridgePoint, iUML.
- Modeling Standards : UML, MDA, XMI/JMI, OCL, SysML, BPMN, SoaML, and SPEM.
- Requirements Management : Enterprise Architect, Requisite Pro, and Caliber RM.
- Databases : Oracle, SQL Server, and MySQL.
- Workflow : WfMC, XPDL, InSession WorkPoint, OpenWFE.
- Architectural Frameworks: Zachman, TOGAF, UPDM.
- Business Process Management (BPM) : BPEL/BPEL4WS.
- Good writing skills.

## EXPERIENCE

2001 - Present Cephas Consulting, Tustin, CA (www.enterprisemodelingsolutions.com)
**President and CEO**

### Major consulting engagements:

Microsoft
Redmond, CA
**Consultant and Trainer (2011-2013)**

**(Continued)**

Provide training and consulting related to the adoption of Enterprise Architect and BPMN 2.0 as the modeling standard for capturing Microsoft's business process models. Activities include:

- Develop a custom Enterprise Architect and BPMN 2.0 training curriculum.
- Deliver training to over 200 architects, engineers, analysts and project leads.
- Import business processes modeled in Visio into Enterprise Architect and convert them to the BPMN 2.0 standard.

California State Automobile Association (CSAA)
Glendale, AZ
**Consultant and Trainer (2009-2010)**
Enterprise Architect related consulting, training and tool customization. Activities include:

- Develop an MDG Technology providing insurance domain and SOA specific:
    - Modeling artifacts with specialized tagged values and graphical representations.
    - Custom diagrams and toolboxes.
    - MDA transformation templates.
    - Search definitions.
    - Complex RTF reports.
    - Views, patterns and VB import/export scripts.
    - Pre-built project templates (package structures, diagrams and default elements).
- Develop a custom training curriculum based on the MDG Technology described above.
- Teach the course material to the End Users.
- Participate in the actual modeling of Web Service (SOA) definitions using the described tool extensions.
- Provide second-level technical support.

San Diego Gas & Electric (SDG&E)
San Diego, CA
**Consultant and Trainer (2007-2010)**

Customize the Enterprise Architect modeling tool to satisfy the needs of the Business Analysts and Integration Architects. Activities include:

- Develop an MDG Technology with corresponding Visual Basic/C# add-in in order to:
    - Provide domain specific modeling Artifacts (e.g. Requirements) with custom property sheets.
    - Capture additional Business Model element properties that extend the default BPMN set.
    - Offer supplemental features that ease the use of the tool by the Business Analysts (e.g. automatic process step numbering).
    - Make available complex traceability reports.
    - Validate that the models developed match the defined Process standards.
    - Supply pre-built project templates (Package structures, diagrams and default elements).
- Develop a custom training curriculum based on the MDG Technology and add-in described above.
- Teach the course material to over 200 End Users.
- Develop a second MDG Technology for the Integration Team to allow them to:
    - Build complex attribute-level relationships between generic data definitions and their final realization in XML Schema.
    - Run various reports documenting these relationships.

- Validate their models.
- Train an internal support team in managing the Enterprise Architect database and its custom extensions.
- Provide second-level technical support.

Kaiser Permanente (via the Miriam Institute)
Pasadena, CA
**Consultant (2005-2006)**

Define a Model Driven Solution Delivery (MDSD) process for the Health Plan Organization – Application Delivery (HPO/AD) division of KP-IT. Activities include:

- Develop an assessment report covering the organization's overall readiness for a transition to model driven approaches.
- Define a high level transition plan for such a transition.
- Develop an Engagement Framework as a set of comprehensive UML models (leveraging the Eriksson-Penker and Software Process Engineering Metamodel profiles) illustrating:
  - The roles, responsibilities and activities of the people and organizations involved in defining, developing and deploying a software project.
  - A customizable software development process covering activities ranging all the way from requirements gathering to testing and deployment.
  - The various opportunities for leveraging MDA automation techniques such as model-to-model and model-to-artifact generation.
  - Sample artifacts produced by each of the process activities (requirements, use cases, class modes, component specifications, deployment diagrams, etc.).
  - Mappings from the Engagement Framework to other development guidance initiatives at KP-IT such as the Comprehensive Delivery Process (CDP).
- Develop a prototype for mapping the UML processes defined in the Engagement Framework to corresponding XML workflow definitions which can be executed by the open source OpenWFE workflow engine.

2005 – Present

Technical pre- and post sales consulting for Sparx Systems

As a VAR for Sparx Systems (http://www.sparxsystems.com/) provide the US sales team with technical pre- and post sales support for the Enterprise Architect (EA) UML tool.

2003 – 2005

First American Interactive (via Irvine Technology Corporation)
San Diego and Santa Ana, CA
**Systems analyst**

Systems Analyst for a number of software components:

- Gather requirements, develop the Platform Independent Model (PIM) using UML, and write the analysis specification for a third party workflow component based on the meta model defined by the Workflow Management Coalition (WfMC).
- Develop custom workflow definitions for appraisal, title and flood business processes, using the WorkPoint engine from Insession Technologies.
- Participate in defining an infrastructure for capturing, storing and harvesting business metadata, using in house tools built in accordance with the MOF and CWM standards defined by the OMG.
- Create a UML analysis specification for a Workflow component designed to act as the central point for collecting order status information from various Service Providers and send notifications of order state change events to any parties that have registered interest in such events (using a publish/subscribe interface). Workflow is an essential constituent of the First American Web Services (FAWS) application.

**(Continued)**

2003 Silicon Space
San Diego, CA
**Technical Architect**

Lead J2EE architect for the design of a Web-based application that serves as the back-end integration point for an Electronic Cash Register (ECR):

- Assisted the business analyst with conducting interviews of Subject Matter Experts (SME), drafting use cases and gathering functional as well as non-functional requirements.
- Developed the conceptual model and system interaction diagrams.
- Outlined an architectural blueprint for the user interface (UI) based on Model View Controller (MVC) and other J2EE related patterns.
- Provided hardware and software cost estimates for a complete end-to-end solution.
- Submitted recommendations with regards to technology, vendor, and tool selection.
- Designed a framework for integrating various third party applications and products, including payroll, CRM, accounting, credit card processing, Intuit QuickBooks, and the cash register.

2000 – 2003 enhansiv
Irvine, CA
**Technical Architect/Senior Developer**

Responsible for building, reviewing and maintaining the business and system architecture of this Application Service Provider's product.

- Developed new components, and updated existing components, along a 4-tier distributed architecture designed to be scalable, reliable, and able to sustain high throughput.
- Analyzed customer requirements, evaluated technologies, documented and reviewed current product development processes, and submitted business process improvement recommendations.
- Participated in high-level analysis and design sessions, managed installation and prototyping of new technology products, worked with third-party vendors such as BEA and IONA, and produced UML analysis and/or design specifications for major product changes.
- Implemented solutions using the Java programming language. Areas of applied expertise include : concurrent programming/thread management; complex exception handling; object lifecycle control; transparent use of instrumentation/debugging/logging modules; interfacing with a relational database (Oracle 8i) using JDBC; and applying common patterns and idioms (MVC, Gang of Four, Sun's J2EE patterns, etc.).
- Built an object-to-relational Persistence framework residing on top of any relational database (with specific mappings to Microsoft SQL Server and Oracle 8i).
- Introduced J2EE/EJB (specifically BEA WebLogic), Model Driven Architecture (MDA), Web Services, and formal process modeling by mapping the SPEM UML profile to Rational Rose.

2000 freefire.com
Irvine, CA
**Lead Developer**

Team leader of a group of three engineers tasked with devising an object-to-relational database mapping written in Java, leveraging the TOPLink tool from WebGain, within the context of a CRM (Customer Relationship Management) application intended to become a free Open Source Solution:

- Created an add-in component to Rational Rose allowing additional database specific semantics to be captured in UML models, then exporting these into an XML file (from the file, a tool generates SQL statements to be used by the Java runtime engine).
- Included mappings to both Microsoft SQL Server and Oracle RDBMS.
- Delivered prototype and specifications, and supervised all phases of implementation.

1997 – 2000 Information Management Associates
Fountain Valley, CA
**Enterprise Architect/Senior Developer**

Tasked with the design of a distributed 3-tier architecture, fully implemented in Java, that allows business components to evolve independently of any underlying system infrastructure changes:

- Determined scope of project, gained management buy-in and sustained executive support during entire lifecycle of project, all the way through successful rollout.
- Defined a formal architecture of the system, using UML models, built around the concept of hiding the implementation details of all the pervasive services such as concurrency, distribution, persistence, security, etc. away from the application code.
- Trained and mentored developers, project managers, sales and marketing staff on the business impact and various implications of the new architecture.
- Played a key role in producing UML analysis and design specifications, and served as team lead/project manager for the architecture development, overseeing a group of 10-in-house engineers and 2 outside consultants.
- Participated in writing the Java implementation code of this infrastructure, in particular the components dealing with distribution, database connectivity, and metadata repository.
- Introduced a number of new technologies into the enterprise: a formal development process based on the Rational Unified Process (RUP) methodology; object oriented analysis and design (OOAD); UML; analysis and design patterns; design-by-contract specifications, CORBA; XML; Java; and OODBMS.

1993 – 1996 Various Clients
Orange County, CA
**Consultant**

Lead small-scale, tactical projects lasting from just weeks to six months:

- Developed Macintosh GUI applications, a 3270-screen scraping application, an ODBC driver to interface with a proprietary database and various C applications running on UNIX platforms.

1988 - 1992 The Ultimate Corp., Ridgedale, NJ
**Systems Developer**

- Member of the R&D team maintaining the Pick Operating System.

1984 - 1988 Ultimate S.A., Paris, France
**Development Engineer**

- Helped create this subsidiary from the ground up. Tasks included pre- & post-sales support, vendor relationship management, technical support, and enhancing the operating system to satisfy local needs.

1980 – 1984 Sony Music (formerly CBS Records), Brussels, Belgium

**(Continued)**

**Application Developer**

- Participated in the design, implementation and maintenance of its application package, including the order entry, inventory management, and royalty & copyright components..

## EDUCATION

Accounting degree, from the *Chambre Belge des Comptables*, Brussels, Belgium.

## LANGUAGES

Fluent in English, Dutch and French.