



**MARY HANRAHAN  
PROCESS INDUSTRY CONSULTANT**

**CAREER PROFILE**

Mary began her career in Information Systems with a consulting company working on a broad range of business application areas before focusing and specializing on applications for Petrochemical Industries. Mary specializes in the functional requirements documentation and detailed system design for Production Accounting applications and polymer batch tracking systems, and has also worked on Gasoline Blending, Refinery Scheduling and Refinery Information Systems Integration.

Mary received her BSc degree in Computer Science with Statistics from the University of London.

**PROFESSIONAL EMPLOYMENT**

**INDEPENDENT CONSULTANT 1999 – Present**

**Consultant**

Business analysis and functional design of interfaces between software modules in an integrated Refinery Information System. Performed analysis of the data and information flow and exchanges required between modules. Designed data exchange mechanism and data mapping procedures. Participated in the implementation and testing of the interfaces which were coded in Visual Basic using XML techniques. This project required excellent verbal and email communication skills since members of this project team were located in various locations in North America and Europe

**Consultant,**

Supported plant configuration change with analysis and specification for modifications to an existing Batch Tracking System at an International Polymers Plant.

**ASPEN TECHNOLOGY, Inc. Houston, Texas. (1996 – 1997)**

*(Aspen Technology, Inc. acquired Setpoint, Inc. in January 1996)*

**Consultant**

Business analysis for a major independent Petrochemical Company during the implementation of SAP R/3 system. Responsibilities included requirements analysis and integration design for plant materials inventory and movements from existing plant systems to the SAP R/3 system.

**SETPOINT, Inc. Houston, Texas. (1989 - 1996)**

**Technical Project Lead**

Business Process Design, requirement gathering, specification, functional requirements documentation, analysis and detailed system on multiple Production Accounting Project implementations, polymer batch tracking systems and other petrochemical plant applications.

**Department Manager, Information Technology**

Operations management responsibility for a staff of 25 software and engineering professionals. Duties included budget preparation, project assignments and career growth for all department members. Also responsible for determining staffing requirements, and hiring and managing contract staff as necessary to complement internal resources. Projects included internal development projects, client implementation and installation projects.

**Technology Manager and project Technical Lead**

Production Accounting project utilizing state of the art relational data base technology and interactive GUI.

**BONNER & MOORE Inc. Houston, Texas. (1980-1989)**

**Technical Project Leader**

Designed, developed and project leader for an interactive LP optimization Gasoline Blending System on a Personal Computer, including installation at client's site and on-going client support. Implementation and project technical lead on Preventive Maintenance System on IBM 8100

**Department Manager**

Manager of a group of programmer, analysts and designers for a variety of refinery application systems, including the preparation of the yearly objectives and budgets for the Software Systems Development Group.

**Implementation Consultant**

Multiple implementations projects of a standard batch yield accounting system at client sites, including design and specification of client customization, system installation, client training, project management and data gathering.

**INDEPENDENT PROGRAMMER England (1978)**

Lead the design and development of microprocessor software for the newspaper industry. Development of financial reports for a national brewery.

**AIRCRAFT RESEARCH ASSOCIATION, Bedford, England (1978)**

Development of software to monitor and control a model in a wind tunnel, and record the forces on the model to aid in aircraft testing and design.

**SOFTWARE SCIENCES LTD., Farnborough, England. (1975 - 1977)**

Team member on a variety of client projects including air traffic simulation, computerized newspaper typesetting, military and insurance applications.

## MAJOR PROJECTS

- Statoil** Design/Implementation team member on an Integrated Refinery Information System for 2 European Refineries. Responsible for the production of Detailed Designs for interfaces between Refinery Scheduling and Planning Systems and the Order Management System and between the Order Management System and Blending and Oil Movements Systems. The interfaces were implemented in Visual Basic using XML techniques
- Lyondell /Equistar** Consultant to a major independent Petrochemical Company in the implementation of multiple SAP modules. Responsibilities included analyzing the requirements and designing an interface to extract process data and volumetric information into material movements for entry into SAP. Analysis covered 4 plants, 3 Polymers and one Petrochemical facility. Supported end users during the system start-up and “Go Live” phase and the first month end close on the system. Involved in the definition of material masters and materials management from Purchase Requisitions through to inventory accounting and control. As part of this project attended SAP training courses learning SAP functionality and structure, and taught interface classes to client staff.
- Corpoven, Venezuela** Technical Lead for a Production Accounting System on a development project for a refinery which utilized a state of the art Relational Data Base and interactive GUI. Responsible for the functionality of the system, the system design and the client interaction, testing and on-site commissioning activities.
- Husky, Canada** Development and implementation of a Production Accounting System which became the basis for Aspen’s Pro-Count product. The system was based on an Oracle database. The reports from the Production Accounting System were designated by Husky Management as mission critical to daily operations of the plant.
- SIR, Côte d'Ivoire** Functional Requirements Analysis and detailed system design of the Refinery Management Information System.
- Shell Chemicals, Australia** Preparation of project bid documents. Technical project leader defining the functional requirements analysis, detailed system definition, system testing, and on-site user training and commissioning. System provided batch tracking, consumption and production information, recipe management, interaction with the Advanced Control Software, Laboratory System and DCS to ensure the integrity of the control data and the production and transfer information.

**Shell Chemicals, Germany** Produced the functional requirements analysis, detailed system design, specified system testing, and the client in-house system integration testing. System provided batch tracking, consumption and production information, recipe management, interaction with the Advanced Control Software, Laboratory System and DCS to ensure the integrity of the control data and the production and transfer information.

## **EDUCATION**

University of London, England  
BSc. Computer Science with Statistics