

# Russell W. Louks

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## Experience

### **2012 – Present Michigan Technological University**

#### **Professor of Practice, Management Information Systems**

- Teaching IT/IS Management, Business Process Analysis, Business Programming, and Systems Analysis
- Advisor for the IT Oxygen Enterprise program.

### **1985 - 2012 Ford Motor Company Dearborn, MI** **Manager, University Sourcing Office (Houghton)**

- I opened and managed a low cost sourcing center for the design, development and support of application programs and their associated architecture. The team consisted of 30 – 35 Michigan Tech students working part-time and 2 full-time Ford Motor Company employees. We have worked on over 50 different development, support, and infrastructure projects saving the company \$.5M per year.

#### **Manager, Plant Floor Systems**

- I managed a team of 18 people responsible for delivering plant floor applications including, an equipment monitoring system, two quality systems, a process engineering system, and a statistical process control system. Responsible for the full systems life cycle of both internally developed applications and the integration of commercial software packages.
  - The equipment monitoring system included a combination of 6 vendor packages (from 5 different vendors) and Ford developed programs.
  - The quality systems are completely Ford developed applications. Systems used 2-D barcode technology for component traceability and the other quality system uses RFID technology for shipping rack management.
  - The process engineering system is completely Ford developed. The system has over 5000 users and is used to design the assembly processes for 18 Ford assembly plants worldwide.
  - The statistical process control system is a commercial statistics package designed specifically for the automotive industry.

#### **Mergers Acquisitions and Divestitures**

- Worked on several MA&D projects including leading the due diligence for the proposed purchase of Daewoo Motors and a Joint Venture with International Truck. These assignments involved doing a complete systems inventory for integration with Ford systems. Responsible for the implementation of appropriate access/network controls to maintain the required separation of systems between the two companies

#### **Mazda Business Integration Liaison**

- Worked in partnership with Mazda's Information Systems Division to identify integration/sharing opportunities between Ford and Mazda IT systems.

#### **Supervisor, Manufacturing Systems Office**

- Supervised a team of 25 people, including 6 in Europe. Responsible for the development and implementation of a suite of 6 applications including a plant maintenance management system that was adopted for worldwide implementation. Responsible for the complete systems life cycle for all of the applications

#### **Ford Production System**

- Worked as a technology and business process subject matter expert on the team that reengineered Ford's production management processes in line with lean manufacturing concepts.

#### **IT Manager, Wixom Assembly Plant**

- Launched a production critical scheduling and material flow system in an automotive assembly plant. The objective of the systems is to restore the production sequence and deliver material in sequence to the assembly line. Also was responsible for supporting all of the information technology used in the operation of the plant. Responsible for a Class II computer room which included daily computer operations, backup management, disaster recovery planning/testing, and access control systems.

#### **Other Assignments**

- Development leader for an assembly plant production control system that included automatic identification of vehicles in the production process. I was the project leader for the complete life cycle of the project from requirements to implementation
- Lead on-campus recruiter at Michigan Technological University for 13 years.

#### **1983 - 1985                      General Dynamics                      Centerline, MI** **Reliability Engineer**

- Launched and managed a maintenance database to provide component failure data analysis on the M1A1 tank program to the US Government.

#### **1979 - 1983                      Cabrini High School                      Allen Park, MI** **Teacher - Math and Computer Science**

- Developed and taught the Computer Science curriculum. Worked with a business partner to fund a 16 computer lab.

#### **Education / Certifications**

#### **1975 - 1979                      Michigan Technological University Houghton, MI**

- BS Mathematics with a Secondary Teaching Certification

#### **1981 - 1985                      Wayne State University                      Detroit, MI**

- 27 Credit hours of course work in Computer Science.

**2001 – 2002                      Purdue University                      West Lafayette, IN**

- MS Technology
  - Directed project on Voice Recognition Software

**2007 Certified Information Systems Security Professional (CISSP)**

**Teaching  
Experience**

**Cabrini High School**

- Courses
  - Algebra I
  - Algebra II
  - Geometry
  - Basic Language Programming
- Designed and developed the computer programming course. Worked with a business partner to fund a 16 computer lab. Also taught the programming class as an adult night class.

**Central Michigan University**

- Courses
  - Computer Networks I
- Introduction to computer networks. Point-to-point, local area and wireless networks. Protocols, routing algorithms, and congestion control in networks. Includes ISO 7 layer network model, TCP protocol, and UDP protocol.

**Michigan Technological University**

- Courses
  - Business Process Analysis
  - IT/IS Management (planned Spring 2012)
- Business Process Analysis - Studies business decision management discipline using business rules, process models (e.g. flowcharts, unified modeling language, swim lanes), and information systems to improve efficiency and effectiveness. Emphasis on industry standards and business process management used to increase productivity.
- IT/IS Management - Studies business decision management discipline using business rules, process models (e.g. flowcharts, unified modeling language, swim lanes), and information systems to improve efficiency and effectiveness. Emphasis on industry standards and business process management used to increase productivity.