

RESUME

Name: Satama Sirivunnabood, Ph.D. Candidate

Experience:

January 2007 - Present

Programmer/Analyst, Department of Anthropology, College of the Liberal Arts, Penn State University

- Responsibilities: Database administration, Website development, Developing software applications, Use of image processing software

October 2004 – December 2005

Project engineer, Thai Kraft Paper Industry Co., Ltd. (Siam Cement Group), Thailand

- Responsibilities: Project planning and scheduling, Project Implementation, Machine Erection & Commissioning phases
- Secretary of Initial Phase Management Pillar, Total Productive Maintenance (TPM) committee

May 2002 – June 2003

Production engineer, Thai Container Industry Co., Ltd. (Siam Cement Group), Thailand

- Responsibilities: Productivity control and improvement (PDCA Cycle), Quality management systems, Machinery design and modification
- Secretary of Good Manufacturing Practices (GMP) committee

April – May 2001

Intern engineer, General Assembly Shop, General Motors Co., Ltd., Thailand

- Achieving 10% reduction of working time of a Cockpit Assembly Line

Education:

January 2006 – Present

- Pursuing Ph.D. in Industrial Engineering at the Pennsylvania State University, USA
- Area of research interests: Supply chain network design using stochastic programming, Agent-based supply chain simulation, and Service-Oriented Architecture (SOA) for a supply chain network

September 2004

- MSc. in Advanced Manufacturing Technology and Systems Management, University of Manchester (UMIST), UK (areas of study: manufacturing processes, manufacturing systems and management, CAD/CAM, automation, manufacturing metrology)
- MSc Thesis: Degradation Assessment, Failure Prediction, and Self-Maintenance

April 2002

- B.Eng. in Mechanical Engineering, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand (areas of study: mathematics, solid and fluid mechanics, thermodynamics, machine design, vibration, manufacturing)
- Engineering project: A closed-loop control unit for fuel injection and ignition in a gasoline engine

Engineering Skills:

- Mathematical optimization
- Project management
- Machinery Installation and Erection
- Improving manufacturing processes
- Planned maintenance/ preventive maintenance
- Development of quality management systems, e.g. ISO 9000, ISO 14000

Computer Skills:

- Programming languages: Java, C++, Visual Basics, Matlab/Simulink
- Database: Microsoft Access, mySQL
- Simulation Language: AutoMod
- Statistics: Minitab, SPSS, Excel Analysis ToolPak
- Optimization: ILOG CPLEX/Concert technology, GAMS/CPLEX, LINGO, Excel Solver
- Web pages: HTML, Java Applet
- Microsoft Office: Word, Excel, and Power point

Publications:

- Sirivunnabood S. and S. Kumara, *Comparison of Mitigation Strategies for Supplier Risks: A Multi Agent-Based Simulation Approach*, IEEE/INFORMS International Conference on Service Operations, Logistics, and Informatics, 2009, pp 388-393.
- Sirivunnabood S. and A. W. Labib, *Towards the Development of Self-Maintenance Machines*, The proceeding of The Third European Conference on Intelligent Management Systems in Operations, Manchester, UK, June 2005, pp 1-22.

Presentations:

- *Comparison of Mitigation Strategies for Supplier Risks: A Multi Agent-Based Simulation Approach*, IEEE/INFORMS International Conference on Service Operations, Logistics, and Informatics, Chicago, IL, July 22-24, 2009.

Professional Certification:

- License of Professional Practice (Associate mechanical engineer), Council of Engineers, Thailand

References: Available upon request.
