Xi Gu

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EDUCATION

University of Michigan, Ann Arbor, MI *Apr. 2012*

- M.S.E., Industrial and Operations Engineering
- Courses: Stochastic Processes, Dynamic Programming, Time Series Analysis, Service Operations Management, SCM, Production System Engineering, Scheduling, Global Manufacturing, etc.

Zhejiang University, Hangzhou, Zhejiang, China *June. 2010*

- B.S.E., Mechanical Engineering

RESERACH EXPERIENCE

S. M. Wu Manufacturing Research Center, UMICH

Short-term Joint Maintenance and Production Decision Support Tool of Manufacturing Systems *Sept.2011~*

- Extend bottleneck identification and MOW analytical into complex production system.
- Maintenance priority assignment with on-line information
- Develop production decision support tool with a combination of short-term and long-term decision.

Development and Implementation of Optimal Maintenance Strategies at MAP *Jan. 2011 ~ Jul. 2011*

- Implemented the Maintenance Opportunity Windows (MOW) algorithm to MAP.
- Calculated and validate the MOW of the machines in the production systems using SIMUL8.
- Combined the simulation model with the real problem with the data from FIS.
- Developed User Interface to analyze MOW using the real-time information.

The State Key Lab of Fluid Power Transmission and Control, ZJU

Six Degree-of-Freedom Electro-Hydraulic Servo Platform Project *Sept. 2009 ~ June. 2010*

- Designed a 6 DOF parallel platform. Drew the mechanical structure using Solidworks.
- Designed the trajectory tracking control system of the system by Simulink. Performed research on the sloshing suppression problem on the platform.
- Participated in software and hardware debugging of the system.
- Wrote thesis on Design of a 6 DOF Sloshing Simulation Platform, which won the *Excellent Graduation Thesis*.

Design of Telescopic Hydraulic Cylinder *Apr. 2009 ~ June. 2009*

- Drew the mechanical structure using Solidworks and AutoCAD.
- Designed a mechanical device to solve the self-locking problem.
- Performed strength calculation and validation of the cylinder.

INTERNSHIP EXPERIENCE

***Technology Intern*, E-CHIP Co. Ltd., Yixing, China** *Aug. 2009*

- Worked with the technology team on the topic of Photovoltaic Power Generation System.
- Improved my understanding of how technology works with industry and business.
- Participated in the staff training program. Cooperated with people from different background.

SKILLS

- Computer: MS Office, C, VBA, Matlab, AutoCAD, Solidworks, SIMUL8, etc.
- Language: Mandarin, English.