

PAN, CHAOYE

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EDUCATION

Ph.D. candidate, University of Michigan-Ann Arbor (Advisor: Jun Ni) Sept. 2006 - present
Major: Mechanical Engineering (GPA: 3.7/4.0)

M.S., University of Michigan-Ann Arbor June 2009-present
Major: Industrial & Operational Engineering (GPA: 3.7/4.0)

M.S., University of Michigan-Ann Arbor Dec 2009-Jan 2011
Major: Statistics (GPA: 3.6/4.0)

M.S., University of Michigan-Ann Arbor Sept 2005-Jan 2007
Major: Mechanical Engineering (GPA: 3.7/4.0)

WORK EXPERIENCE

General Motors (Summer Intern, Warren MI)

- Optimizing material handling control on Virtual Manufacturing Systems (May 07-Aug 07)
 - Building up and validate Virtual plant-floor systems and controls with emphasis on real-time sensing and control (with Arena and VBA)
 - Looking for and evaluating exercisable solutions for multilevel/multi objective optimization of complex Material Handling systems
 - Implementing Reliability Theory to simulate real-time failure situation
- Modeling and analysis of material handling workforce management (May 08-Aug 08)
 - Material handling workforce zoning algorithm design and optimization
 - Deterministic and stochastic workforce dispatching scheduling

General Electric (R&D center, Shanghai)

(May 2004 –June 2005)

- Piezoelectric motor controller design based on VC++ MFC with RTX
 - Implementing rapid tool servo control to regulate the discharge gap every 0.1 ms with 1 μm positioning accuracy (using Nanomotion piezo stage and Delta Tau PMAC controller)
 - Comparing efficient control methods based on virtual VC++ plant with RTX system

PUBLICATIONS:

C. Pan, G. Xiao, Q. Chang, J. Ni, "Optimization of Workforce Zoning for Dolly Material Handling" Proceedings of the 2008 Industrial Engineering Research Conference

Q. Chang, C. Pan and G. Xiao, "Modified max-plus algebra modeling of automotive assembly systems", submitted to IEEE Transactions on Automation Science and Engineering