

Jia Kang

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EDUCATIONAL BACKGROUND

- Texas A&M University** Aug. 2009 –exp. 2013 College Station, USA
= Ph.D in Department of Chemical Engineering
- Zhejiang University** Sep. 2005 –Jun. 2009 Hangzhou, China
= Bachelor of Science in Control Science and Engineering
= Overall GPA:3.87/4.0, Major GPA:3.93/4.0
- Awards & Honors**
= Excellent undergraduate student (2009)
= Excellent Undergraduate Scholarship, two times (2006,2008)

SELECTED PROJECT EXPERIENCE

- Ø **Formulation, decomposition and solution of optimization problem resulting from inverse problem** (present)
= Jointly supervised by Dr. Juergen Hahn and Dr. Carl Laird
- Ø **Assistant engineer practice in JuHua Chemical Engineering Cooperation** (Aug.2007-Sep.2007)
= Acquainted with the production processes and control systems (DCS) for four chemical plants.
- Ø **PID parameter tuning**
= Implemented PID analytic tuning method using matlab
= Implemented PID response curve self-tuning method using simulink
- Ø **System Analysis of Zhejiang University students' breakfast nutrition**
= Used Analytical Hierarchy Process (AHP) method to analyze various factors
= Implemented the Algorithm using matlab
- Ø **PLC control system design ----- beer production in the process of saccharification**
= Designed a PLC network control system by using SIEMENS SIMATIC S7-300 PLC to meet the requirements of the process at a relatively low cost.
= Designed the Control cabinets using Auto CAD.
- Ø **Fuzzy Logic Control for infant - incubator systems**
= Implemented a fuzzy logic control system for an infant incubator system using simulink
- Ø **Simulation and optimization components for Process monitoring integrated platform**
= Embedded ASCEND (as core modeling platform) in a process monitoring integrated platform.
- Ø **GAMSCOM (sponsored by Zhejiang University)**
= GAMSCOM is an ActiveX Control which encapsulates GAMS to provide the basic GAMSIDE functions based on the COM technology. It simplifies the calling of GAMS from a program.
= The concept of GAMSCOM is first proposed by me. Wrapped GAMS as an COM object using ActiveX technique in VB
= Tested GAMSCOM in several programming languages and on different operation systems and released it on the internet

COMPUTER SKILLS

- = Proficient at VB, Matlab, C/C++
- = Familiar with MS Office, GAMS, ActiveX, Auto CAD, Assembly