

Wanchen Dai

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EDUCATION

Bachelor Mechanical Engineering Shanghai Jiao Tong University (SJTU) / 2005-2009
Graduation Thesis: Data Mining Based Fault Diagnosis Method for Hydraulic Systems

RESEARCH EXPERIENCE

- ◆ **PCB designer and maker**, October-December 2008
 - *Design of a closed-loop control system (PCB) for a double-stepping motor*
- ◆ **Kinematic Models and Motion Dexterity Analysis for Legs of Some Animals (PRP-Participation in Research Project at SJTU)**, Dec. 2007-Oct. 2008
 - *Research*
 - *Was selected into the **Excellent papers of Students***
- ◆ **Mechanism and data measurement designer and group leader**, 1st sem SY 2008-2009
 - *Design of a complete system*
 - Designed a book-return system (including mechanism, motivator, data measurement, and controller) for our library which can convey the returned books to the correct floors automatically
- ◆ **Programmer**, 1st sem SY 2008-2009
 - *Design of a controller of a flight simulation system*
 - Developed a method and programmed to eliminate the influence from the noises which could cause a control deviation
- ◆ **Group leader and Pro/E drawer**, 2nd sem SY 2007-2008
 - *Modeling and controlling of the 6-DOF Platform*
 - Controlled the movement of the 6-DOF platform through simulation and programming
- ◆ **Group leader and designer**, 1st sem SY 2007-2008
 - *Design of a mechanical elevator*
 - Designed and built a prototype using primary materials to transfer 24 kg weights to a height of one foot through automation control
- ◆ **Group leader and designer**, 2nd sem SY 2006-2007
 - *Design of a smart cup-holder*
 - Designed a smart cup-holder which can carry cups in any shape for car use

WORKING EXPERIENCE

- ◆ Sep. 2009 -present Research Assistant of IMS Center at UC
- ◆ 2nd Sem SY 2008-2009 Teaching Assistant of Dominant Design Course of the ME School and Joint Institute at SJTU

HONORS AND AWARDS

- ◆ 2005-2008 Excellent Academic Scholarship of SJTU
- ◆ 2006 Excellent Award for Social Practice of College Students in Shanghai for the program - Research of Current Situation of Chinese Traditional Art Forms