

# HEE-JIN CHO

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**Experience**      Fall 2005 ~ Current                      Mechanical Engineering Department                      MSU

**Graduate Assistant in Cooling, Heating, and Power (CHP) Project**

- Working as a graduate assistant under supervision of Dr. Rogelio Luck and Dr. Louary M. Chamra, professors in Mechanical Engineering
- Dynamic modeling of components for CHP systems
- Website of MicroCHP at MSU: <http://microchp.msstate.edu/>

Fall 2004 ~ Current                      Mechanical Engineering Department                      MSU

**Nonlinear Uncertainty Analysis Research**

- Working with Dr. Rogelio Luck, professor in Mechanical Engineering
- Non-linear uncertainty analysis based on the propagation of covariance matrices as well as the geometrical interpretation using higher dimensional ellipsoids, generated from multivariable Gaussian distributions.

Spring 2004 ~ 2005                      Mechanical Engineering Department                      MSU

**Teaching Assistant**

- Assessing and evaluating students' work for Dr. Rogelio Luck, professors in Mechanical Engineering

May 2004 ~ Dec. 2005                      Aerospace Engineering Department                      MSU

**Teaching Assistant**

- Assessing and evaluating students' work for Ms. Wolverton, instructor in Aerospace Engineering

Summer 2003                      Mechanical Engineering Department                      MSU

**System Control Project**

- Worked with Dr. Rogelio Luck, professor in Mechanical Engineering, researching and designing an inverted-pendulum control system
- Work included study of motor characteristic and control, state-space design, linearization of the system, observer design, and the full feedback system of inverted pendulum

**Education**      2005-Current                      Mississippi State University                      Starkville, MS

- Majoring in Mechanical Engineering
- Concentrating in System Dynamics & Control and Uncertainty Analysis
- 4.0 GPA, as of January, 2005

2003-2005                      Mississippi State University                      Starkville, MS

- B.S. in Mechanical Engineering
- 3.79 GPA, as of May, 2005

1998-2003                      Catholic University of Daegu                      South Korea

- Majoring in Automotive and Mechanical Engineering
- 4.14 / 4.5 ( 94.34/100 ) GPA, as of 2002
- Freshman President of Automotive and Mechanical Engineering College
- Exchange Student Program at MSU in 2003

Summer 2002                      Australia Catholic University                      Sydney, Australia

**Summer Scholarship English Program**

- English as Second Language course provided by Catholic University of Daegu
- Leader of a group of twenty other students participating in the program

2001                      King George International College                      Vancouver, Canada

- English as Second Language course

**Skills**

- Ability of self-education of computer programs (FrontPage to design website, SolidWorks to design a 16-valve camshaft)
- Fluent in using Mathcad, SolidWorks, Photoshop
- Be able to use Matlab, LabView, AutoCad, SolidEdge, Ansys
- Certificate of Excel program in Korea
- Fluent in using Microsoft office programs
- Web-design skills (Programming HTML language, designing web-page, operating sever)

**Honors**

- Barrier Engineering Graduate Fellowship in the Bagley College of Engineering , MSU for 2005-2006 academic year
- CITGO Petroleum scholarship in the Department of Mechanical Engineering, MSU for the 2004-2005 academic year
- Dean's list award of outstanding academic performance during the 2003 fall semester provided by MSU
- Academic achievement of 2003-2004 by the Holmes cultural diversity center in MSU
- Scholarships for having top 5% GPA, Spring and Fall 2002 by Catholic University of Daegu
- Scholarships for having top 10% GPA, Spring and Fall 1998 by Catholic University of Daegu