

# Yangbing Lou

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Residence: Permanent resident of United States, Chinese

## EDUCATION

**University of Michigan**, Ann Arbor, MI 9/2010-12/2011  
*M.S. in Mechanical Engineering*: control ♦ Overall GPA: 7.70/9 ♦ Related Coursework: Mechatronics Systems Design, Modeling and Analysis of Dynamic System, Analytical Methods in Engineering, Design Optimization

**University of Michigan**, Ann Arbor, MI 9/2008-5/2010  
*B.S. in Mechanical Engineering* ♦ Overall GPA: 3.46/4 ♦ Related Coursework: Design and Manufacturing I, II&III, Manufacturing Process, System Feedback and Control, Control Systems Analysis and Design, Communication

**Shanghai Jiaotong University (SJTU)**, Shanghai, China 9/2006-8/2010  
*B.S. in Electric and Computer Engineering, UMJI* ♦ Overall GPA: 3.30/4 ♦ Related Coursework: Logic Design, Programming & Elementary Data Structures, Intro. to Computer Organization

## ACADEMIC PROJECT EXPERIENCE

**Single axis nano-positioning VC actuator**: Designed and fabricated a voice coil actuator with bearing, move in 10 nm precision; instructor: Shorya Awtar, University of Michigan

**Design and Synthesis of Micro-swimming Robot**: Designed and fabricated micro-robot propulsion system, prototype in 3 mm<sup>3</sup>; instructor: Kai Xu, Shanghai Jiaotong University

**Innovative shower chair for geriatric**: designed and fabricated an Innovative shower chair for geriatric, recognized at design expo; sponsor: Albert Shih, University of Michigan

**Simulation of Quantitative Sensory Tests System**: S.M. Wu Manufacturing Research Center, Simulated the algetic meter; designed PID controller; instructor: Jun Ni, University of Michigan

## SOCIAL/WORKING EXPERIENCE

Intern, TJ Innova Engineering & Technology Co. Ltd. 05/2011-07/2011  
--FEA project, TJ is the largest automotive design company in China

Intern, Zhejiang Ouran Technology Inc. China 06/2010-08/2010  
--Design and manufacturing project for electrostatic precipitator

Teaching assistant, Laboratory I, UMJI, Shanghai Jiaotong University 05/2009-08/2009

Office Director of Students' Science and Technology Association, SJTU 09/2006-08/2008

TIMKEM Leadership Workshop, China 11/2006-12/2006

## SKILLS

*Working software*: C++, MATLAB/Simulink, Xilinx, Pespim, LabView, ADAMS, Unigraphics, 20Sim, Carsim, Solidwork, ProE, Microsoft Office, miniTab

Interest: Soccer, reading, movie

## AWARDS

University Honor, University of Michigan, 12/2008 & 12/2009  
Dean's List, College of Engineering, University of Michigan, 12/2008  
Distinguished Student, Shanghai Jiao Tong University, 2006-2007  
Excellent Academic Scholarship, Third Class, Shanghai Jiao Tong University (1 time)  
Dean's List, UMJI Joint Institute (2 times), Shanghai Jiao Tong University