Vitae of

Hanming (Luke) Huang, Ph. D.

Associate Professor
Manufacturing Coordinator
Certified Industrial Technologist

Home address

797 Horizon Circle
Grand Forks, ND 58203-1802
(701)775-8474

Work address

Department of Technology
University of North Dakota
Starcher Hall Room 152
10 Cornell Street Stop 7118
Grand Forks, ND 58202-7118
(701)777-2202

Email address

luke.huang@und.edu

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I. CAREER OUTLINES

i. EDUCATION

Degree:	Doctor of Philosophy*
Major:	Industrial Education and Technology
Dissertation:	The development of in-process surface roughness prediction systems in turning operation using accelerometer
Finish year:	2001
Institute:	Iowa State University
Location:	Ames, IA, USA

Degree:	Master of Science
Major:	Food Science
Thesis:	Properties of Biodegradable Plastics Made from Chemically Modified Soy Protein
Finish year:	1994
Institute:	Iowa State University
Location:	Ames, IA, USA

Degree:	Master of Science
Major:	Food Engineering
Thesis:	Study of Controlling Water Activity in Intermediate Moisture Food (Candied Papaya)
Finish year:	1989
Institute:	South China University of Technology
Location:	Guangzhou, GD, PRC

Degree:	Bachelor of Science
Major:	Microbiological Engineering
Thesis:	Design of a 100,000 ton/year Monosodium Glucose Plan
Finish year:	1982
Institute:	South China University of Technology
Location:	Guangzhou, GD, PRC

**see ISU transcript in appendix A.*

ii. WORKING EXPERIENCES

8/2005–present	*Tenured Associate Professor* *Department of Technology* *University of North Dakota* *Grand Forks, ND, USA**	Take lead in curriculum and course design, lab equipment planning, outreach to industry in the field of manufacturing; teach 6 courses/year; advise graduate and undergraduate students; conduct research; provide professional services to the institute and the community.
5/2005–8/2005	*Manufacturing Engineer* *Engineering Department* *Marvin Windows & Doors, Inc.* *Grafton, ND, USA*	Worked as a manufacturing engineer in the engineering department. Completely finished three projects, study of bowing problem on sash stiles, intelligent recognition of text work order and simulation, work cell balance and comparison for efficiency. Offered help in other projects.
8/1999–8/2005	*Assistant Professor* *Dept. of Technology* *University of North Dakota* *Grand Forks, ND, USA*	Teach 6 course/year; advise graduate and undergraduate students; conduct research; provide professional services to the institute and the community.
1/1997–5/1999	*Lecturer* *Dept. of Food Sciences* *Iowa State University* *Ames, IA, USA*	Teach 2 course/year in the area of manufacturing automation; provide teaching assistance to 2 course/year.
9/1996–5/1999	*Research Assistant* *Ames Laboratory* *Ames, IA, USA*	Conduct research on adaptive in-process surface roughness control via analyzing machining vibration signals detected with a 3-D accelerometer.
6/1992–5/1996	*Research Assistant* *Dept. of Food Sciences* *Iowa State University* *Ames, IA, USA*	Conduct research on biodegradable plastics using chemically modified soy protein, biodegradable wood adhesives.
9/1988–1/1992	*Lecturer* *Dept. of Food Engineering* *South China University of Technology* *Guangzhou, GD, PRC*	Teach 4 course/year; serve as a home teacher for about 50 students; advise undergraduate and graduate students; conduct research; outreach industry.
1/1977–10/1978	*Technician* *Guangzhou Automobile Rim Manufacturing* *Guangzhou, GD, PR China*	Work as a technician in a mechanical maintenance department and then in the engineering department.

**see T&P recommendation letters from department chair and college dean in appendix B and C.*

II. TEACHING

i. COURSES TAUGHT

Course title & level	**Course description**
Industrial Materials (2nd year) (see a course project in Appendix D)	The study of the characteristics, structure, properties and physical nature of organic and inorganic materials for industrial conversion processing; Materials introduced include wood, metallic, ceramic, polymer, and composite. Laboratory activities to explore properties of these materials are also included.
Automation Systems (3rd year)	The study of the fundamentals of automation as it relates to automated production environments. Students will examine the forms of computer-based automation systems used in the various areas of a manufacturing system and how systems can be integrated through data communication networks. Topics include NC and CNC programming and systems, computer assisted parts programming, industrial robot configuration, industrial automation applications, and integration of control systems and manufacturing technology.
Cost Estimating (3rd year)	Principles and techniques necessary for the economic analysis and evaluation of industrial design projects.
Motion and Time Study (3rd year)	Theoretical and laboratory study of practical tools applied in motion and time study in manufacturing.
Quality Assurance (3rd year)	Theoretical and laboratory study of industrial quality control methods, instrument and systems measurement techniques, and data handling procedures.
Computer Integrated Manufacturing (4th year)	Introduce the idea of computer integrated manufacturing and the steps to implement the idea in manufacturing. Lean manufacturing is introduced as the preparation step for automation and computerization.
Directed Studies in Industrial Technology (4th year)	Studies in topics pertinent to the students' needs in selected topics including (a) Teaching Technology, (b) Electronics and Control Technology, (c) Graphic Communication Technology, (d) Manufacturing Technology, and (e) Materials Science.
Facilities Design (4th year) (see a course project in Appendix E)	Principles and applications of designing industrial/business facilities with emphasis on site location, environmental consideration, qualitative and quantitative modeling. Computer application in facility planning and quantitative analysis; lab activities.
Manufacturing Strategies (4th year) (see a course assignment in Appendix F)	Theoretical and laboratory study of strategies utilized by business and industry to develop and maintain a competitive edge. Topics include lean manufacturing, Kanan, five S's, Kaizan, push and pull modeling, fishbone-4Ms, line balancing, and Pokayoke.
Materials Testing (4th year)	Methods by which properties (i.e. physical, mechanical, thermal, electrical, optical, and chemical) of industrial materials are tested for determination of applications.

Course title & level	**Course description**
Senior Capstone (4th year) (see a course project in Appendix G)	The capstone course is designed to integrate coursework covered throughout the students' program in order to demonstrate knowledge and understanding related to the theories, process, methods and techniques in their area of emphasis. Students will work individually and collaboratively to demonstrate their overall competency in program objectives and their potential as professionals.
Lean: Ideas and Practice (Graduate)	Introduces and discusses the concept of lean, including its past and present practice in industry and associated theories. Projects are designed to include various aspects of lean concepts.
Research in Industrial Technology (Graduate)	An introduction to research methodologies used in Industrial Technology. Theoretical and practical issues associated with quantitative and qualitative methods will be covered. With the major focus to explore and develop research, students will examine published studies and gain practical experience conducting research.
Seminar in Industrial Technology (Graduate)	A series of presentations on research pertaining to industrial technology. Students will prepare, present, and discuss a professional research paper.
Principles of food preserving and processing (3rd year)	Introduce principles applied in various methods in preserving and processing food materials such as meat, vegetable, dairy, egg, fruit, etc.
Bakery technology (4th year)	Study technologies employed in bakery as well as equipment involved in the preserving process.
Canned food processing technology (4th year)	Study technologies employed in canning food materials as well as equipment involved in the preserving process.
English for food engineering (4th year)	Train students to work with English literatures in the field of food engineering, including understanding and writing.
Food preserving technology (4th year)	Study technologies employed in preserving food materials as well as equipment involved in the preserving process.

ii. CURRICULUM DEVELOPMENT/CREATIVE ACTIVITIES

1. IT204, Industrial Materials – To learn more on teaching material science and engineering, I attended the National Material Science and Technology Educator's workshops in 1999 and 2001. In a couple years the course materials were reorganized, the labs were modified, and the lab menu was rewritten. A literature research project was also added to help students develop literature research skills so that they can be able to keep themselves up with the latest information on industrial materials.
2. IT330, Quality Assurance – This course was taken over from another faculty member. The course was reorganized to incorporate materials required for Six Sigma Green Belt.
3. IT340, Cost Estimating – Since taking over this course in 2002, most course materials are reorganized. About one fifth materials are added. In addition, an engineering cost estimate software, WinEstimator, was implemented into the course as part of the course materials.
4. IT343, Motion and Time Study – The teaching of this course in fall 2002 is a success in combining classroom lecturing, workshop practice, and industry consulting. All students in the class participated in surveying and analyzing workers' motions and operation times in part of the Artic Cat Company's production line. The outcome of the project was that the students learned course materials better and

the company obtained valuable analysis results from the class. The project was presented in the 2003 annual convention of the National Association of Industrial Technology.

5. IT363, Manufacturing Automation – The course materials were reorganized after taking over this course in 1999. CNC manual programming was added and Mastercam projects was enhanced. This course was replaced with IT373, Automation Systems, in 2002.
6. IT373, Automation Systems. – This is a new course I developed. The course covers not only CAM/CNC automation, but also other automation components applied in manufacturing, such as sensors, LPC, and robotics.
7. IT404, Materials Testing – This is a lab based course which asks student to perform tests on materials. While maintain the way the course was setup, I put effort to help students writing accurate lab reports. In 2001, the class did a material test project for American Wood Inc. of Grand Forks. In the project, we design the testing method, performed the tests, analyzed the results, and provided a report the American Wood Inc. The project was presented as a research presentation in a national conference (see the attachment).
8. IT420, Facilities Design – Since the course was taken over in 1999, students were asked to find a design project from a company of their interest to practice the class materials. This idea was successful not only providing students a hand's on opportunity to learn, but also providing a certain level professional assistance to surrounding companies. So far, there is about 20 companies received assistance from this course. Some of them provided feedback about the projects the students did for them. Although no major modification was made to this course, I revised the course materials every year trying to bring in the latest information. I also tried different ways to teach same materials in different years to look for a more efficient way. I also spent a summer time in studying an algorithm used in facilities design and share my study with students.
9. IT423, Computer Integrated Manufacturing. – The course materials were improved by immerging in lean manufacturing materials as the first step in computer integrated manufacturing. Bar coding with lab and simulation with Promodel, a computer program, were also became part of the course materials. This course was replaced by IT433 in 2002 and.
10. IT433, Manufacturing Strategies. – This is a new course I developed. Different from the previous course IT423, this course focuses on managerial methods and technologies to make a manufacturing system more flexible, more efficient and more productive. This course provided students the modern concepts in managing a manufacturing system.
11. IT450, Senior Capstone. – I took part in developing the course and designed a project for the manufacturing major.
12. IT497, Directed Studies in Industrial Technology. – The course syllabus, progress schedule, and proposal application form for the course were revised.
13. IT525, Research in Industrial Technology. – Though the course was taught but stopped for years before resumed. Therefore, it was like a new course to be developed. The course was designed to teach graduate students the methods in conducting research in industrial technology. At meantime, the course also guides students in writing a proposal for their research project.
14. IT555, Lean: Ideas and Practice – A course I developed at the graduate level to teach graduate students lean manufacturing.

iii. SELECTED GUIDED STUDENT RESEARCH

1. Ravindra Thamma's MS thesis

   I guided Thamma's graduate research from forming the research idea, forging the idea to a workable research plan, searching for literatures, organizing the research, analyzing the results, making conclusions, to publishing the research. This research is presented in the 35th Annual Conference of National Association of Industrial Technology and published in the Journal of Industrial Technology in 2004.

2. An undergraduate level class project in furniture material testing

Upon request, my Materials Testing class conducted a research project for a local company, American Wood, Inc. The project was to find the weakness that caused crush in the leg of furniture. The project included designing the test method, collecting test data, analyzing the data, and making conclusions. The final research results satisfied the company. A professional presentation about the project was given in the 35th Annual Conference of National Association of Industrial Technology.

3. An undergraduate level class project in motion and time study
   This project was done for the Artic Cat, Inc. by the Motion and Time Study of 2002. The project required us to present on the workshop floor to taper-record operators' work. The videos were then watched with analyzing the motions of the operators. The operations were broken down into small pieces and the corresponding times were standardized. The analysis results were also applied to troubleshoot the work processes. Based on the results, suggestions to the process for improvement were proposed to the company. The project was also introduced in the 36th Annual Conference of National Association of Industrial Technology as professional presentation.

4. Keith Severson's material process study project –
   This is an undergraduate directed study project. In this study, Severson took my suggestion to conduct the study in a higher level. This included a methodology design in the data collecting process and data statistical analysis. I also guided Severson to employ ASTM standardized procedures in testing materials. The project generated very good data and a presentation of it was given to the 37th Annual Conference of National Association of Industrial Technology. (see the attachment)

III. SCHOLARLY ACTIVITIES

i. ACEDAMIC REVIEWER

1. **Academic Article Reviewer** of the Journal of Industrial Technology by the National Association of Industrial Technology. 2006 – present
   Have reviewed an article. Received special appreciation from the author for providing valuable detailed revising information.

2. **Academic Article Reviewer** of the International Network for Engineering Education and Research (iNEER). 2005 – present
   iNEER is a global networking, professional organization formed by the world engineering community to promote mutual progress in teaching and learning through international cooperation. I reviewed one paper for this organization.

3. **Academic Article Reviewer** of IPSI Belgrade, Ltd. 2003 – present
   The IPSI Belgrade, Ltd. is an academic organization. With its base in Belgrade, Serbia and Montenegro, it publishes academic journals and organizes academic conferences for international scholars. Upon its requests, I have reviewed five articles and provided professional evaluations and comments.

ii. REFERABLE PUBLICATIONS

1. Hou, Y. and **Huang, L. H..** (2006) The Present State of and a Suggested Inserting Point for Biodiesel Production Industrialization in China. *Proceeding of the 6th International Environment and Energy Forum*, Shanghai, China, June 21-23, 2006.

2. **Huang, L. H.**, Zhu, L. Y., and Hou, Y.. (2006). Manufacturing Information Recognition, Analysis, and Simulation Using Windows Based Programs. *Proceeding of the Fifth Wuhan International Conference on E-Business: Integration and Innovation through Measurement and Management,* Vol. 3, pp1931-1937.

3. Thamma, R., **Huang, L. H.**, Lou, S., and Diez, C. R. (2004) Controlling robot through internet using java. *Journal of Industrial Technology*, Vol. 20(3).

4. **Huang, L. H.** and Chen, J. C. (2004) A fuzzy-nets-based in-process surface roughness prediction system in turning operations, *International Journal of Knowledge-Based Intelligent Engineering Systems*. Vol. 8(1). – (*see the paper in Appendix H)*

5. Diez, C. R., Yearwood, D. N., and **Huang, L. H.** (2004), Characteristics of an Industrial Technology Capstone Course. *Proceedings of the 2004 American Society for Engineering Education Annual Conference & Exposition*, Salt Lake City, Utah. June 20-23, 2004.

6. Chen, T.-P., Tipparach, U., Yang, X., **Huang, L. H.**, Chen, B., Hou, Y., Zhou, A., Wang, S., Chen, C. J. C., Chen, Q., and Wang, J. T. (2003). Transport studies on metal doped $PrBa_2Cu_3O_7$. *Proceedings of the 2003 International Internet, Processing, Systems, and Interdisciplinaries Conference*, Sveti Stefan, Serbia and Montenegro. Oct. 4-11, 2003 (Invited paper)

7. **Huang, L. H.** and Chen, J. C. (2001). A multiple regression model to predict in-process surface roughness in turning operation via accelerometer. *Journal of Industrial Technology*. Vol. 17(2)

8. **Huang, L. H.** and Chen, J. C. (2000). In-Process Surface Roughness Prediction in Turning Operation via Using Accelerometer. *Proceedings of the 4th Annual Advanced Process Control Applications for Industry Workshop (APC 2000)*, Vancouver, Canada. April 27-28, 2000.

9. Lou, S., Lin, Y., **Huang, L. H.**, and Kung, H. K. (2000) In-Process Micro-Object Machine Vision Measuring System. *Selected Papers of the 33rd Annual Conference of National Association of Industrial Technology*, Pittsburgh, Pennsylvania. November 1-4, 2000.

10. Chen, J. C., **Huang, L. H.**, Lan, X., & Lee, S. (1999). Analysis of an effective sensing location for an in-process surface recognition system in turning operations. *Journal of Industrial Technology*. Vol. 15(3)

11. **Huang, L. H.**, Chen, J. C., and Chang, T. (1999). Effect of tool/chip contact length on orthogonal turning performance. *Journal of Industrial Technology*. Vol. 15(2)

12. **Huang, H.**, Lu, Y., & Chen, L. (1990). Study of lowering water activity in candied fruits with lower sugar content. *Food & Fermentation Industry*. 1990 (5), 48-53. (PR China)

13. **Huang, H.** & Yuan, Z. (1989). Application of enzymes in dough processing. *Wuhan Food Science & Technology*. 1989 (3), 33-38. (PR China)

14. **Huang, H.** & Chen, L. (1988). Study of preserving technology of candied fruits with lower sugar content. *Guangdong Food Industrial Science & Technology*. 1988 (2), 18-24. (PR China)

iii. ONGOING WORK

1. **Huang, L. H.** Modeling of productivity and labor efficiency of an assembly line. In writting.
   Production rate and labor efficiency are important in optimizing a production line. Theoretical analysis on practical data found and thus modeled their dependency on the number of workers and the way the workloads are assigned. It is found that production rate approaches a limit when the number of workers gets to a certain level. The labor efficiency fluctuated depend on how workloads are assigned. The findings will be helpful to production line design and management.

2. **Huang, L. H.** and Sigtryggsson, E. Study of bowing problem on sash stiles. In writing*.
   Bowing, especially which happens in sash stiles, causes quality problems to window products. The study found that the bow level of a stile in a sash product is not determined only by the original bow level of the stile but also other facts such as bow level and orientation of the other stile in the same sash, properties of the glass the stiles hold, properties of the aluminum clad, etc. A model is found to estimate how much the bow level will be in the product if a stile is used under a certain circumstance. Using the model can avoid using a stile which causes quality problems.

iv. PROFESSIONAL PRESENTATIONS

1. Pancala L. and **Huang, L. H.** (2007). Improving the Quality of a Compressor with Taguchi Experimental Design. Oral presentation in the 40th Annual Conference of National Association of Industrial Technology, Panama City, Florida. October 24-27, 2007.

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*see three example pages to taste the research in appendix H.

2. **Huang, L. H.** and Sigtryggsson, E. (2006). An artificial intelligence model in managing production information for high efficiency. Oral presentation in the 39th Annual Conference of National Association of Industrial Technology, Cleveland, Ohio, November 15-18, 2006.
3. Hou, Y. and **Huang, L. H.** (2006). The Present State of and a Suggested Inserting Point for Biodiesel Production Industrialization in China. Oral presentation in the 6th International Environment and Energy Forum in Shanghai, China, June 21-23, 2006.
4. **Huang, L. H.**, Zhu, L. Y., and Hou, Y.. (2006). Manufacturing Information Recognition, Analysis, and Simulation Using Windows Based Programs. Oral presentation in the 5th Wuhan International Conference on E-Business: Integration and Innovation through Measurement and Management in Wuhan, P. R. China, May 27-28, 2006.
5. **Huang, L. H.**, (2005). Classroom Projects Design for Lean Manufacturing, Oral presentation in the 38th Annual Conference of National Association of Industrial Technology, Saint Louis, Missouri, November 16-19, 2005.
6. Severson, K., **Huang, L. H.**, and Diez, C. R., (2004). Advantages of Using Vacuum-Infusion for Composite Construction as Compared to Two Other Traditional Processes. Oral presentation in the 37th Annual Conference of National Association of Industrial Technology, Louisville, Kentucky, October 21-24, 2004.
7. Thamma, R., **Huang, L. H.**, and Yang, H., (2004). Design of Experiments to Teach Ultrasonic Technology in an Industrial Technology Program. Oral presentation in the 37th Annual Conference of National Association of Industrial Technology, Louisville, Kentucky, October 21-24, 2004.
8. **Huang L. H.**, Huang, B. P., and Lou, S. (2004). Analysis of Engineering Cost Estimating Software Packages in the Market. Oral presentation in the 37th Annual Conference of National Association of Industrial Technology, Louisville, Kentucky, October 21-24, 2004.
9. **Huang L. H.** (2004). Applying ProModel in Teaching an Industrial Technology Course. Oral presentation in the ProModel Solutions Conference 2004, Salt Lake City. Sep. 12-15, 2004
10. Diez, C. R., Yearwood, D. N., and **Huang, L. H.** (2004). Characteristics of an Industrial Technology Capstone Course. Oral presentation in the 2004 American Society for Engineering Education Annual Conference & Exposition. Salt Lake City, Utah. June 20-23, 2004.
11. Thamma, R., and **Huang, L. H.**, (2003). A solution for delays in hardware remote control through the internet. Oral presentation in the 36th Annual Conference of National Association of Industrial Technology, Nashville, Tennessee. November 19-22, 2003.
12. **Huang, L. H.**, and Diez, C. R., (2003). Application of Motion and Time Study to Optimize Manufacturing Processes. Oral presentation in the 36th Annual Conference of National Association of Industrial Technology, Nashville, Tennessee. November 19-22, 2003.
13. Chen, T.-P., Tipparach, U., Yang, X., **Huang, L. H.**, Chen, B., Hou, Y., Zhou, A., Wang, S., Chen, C. J. C., Chen, Q., and Wang, J. T. (2003). Transport studies on metal doped $PrBa_2Cu_3O_7$. Oral presentation in the 2003 International Internet, Processing, Systems, and Interdisciplinaries Conference, Sveti Stefan, Serbia and Montenegro. Oct. 5-11, 2003.
14. **Huang, L. H.**, and Diez, C. R., (2002). Implementation of a practical project in a materials testing course. Oral presentation in the 35th Annual Conference of National Association of Industrial Technology, Panama City, Florida. November 6-10, 2002.
15. Diez, C. R., **Huang, L. H.**, and Yearwood, D., (2002). The capstone course – an integrated experience. Oral presentation in the 35th Annual Conference of National Association of Industrial Technology, Panama City, Florida. November 6-10, 2002.
16. Diez, C. R., Holten, R., **Huang, L. H.**, and Yearwood, D., (2002) Assessment plan for an existing IT program. Oral presentation in the 35th Annual Conference of National Association of Industrial Technology, Panama City, Florida. November 6-10, 2002.
17. **Huang, L. H.**, Lou, S., and Tsai, H., (2001). Design, construction, and integration of a remote-controllable fire engine prototype as an independent study curriculum of microprocessor study. Oral

presentation in the 35th Annual Conference of National Association of Industrial Technology, Dearborn, Michigan. November 1-4, 2001.

18. Thamma, R., and **Huang, L. H.**, (2001). Controlling robot/PLC through the internet. Oral presentation in the 35th Annual Conference of National Association of Industrial Technology, Dearborn, Michigan. November 1-4, 2001.

19. Lou, S., Lin, Y., **Huang, L. H.**, and Kung, H. K. (2000). In-Process Micro-Object Machine Vision Measuring System. Oral presentation in the 33rd Annual Conference of National Association of Industrial Technology, Pittsburgh, Pennsylvania. November 1-4, 2000.

20. **Huang, L. H.** and Chen, J. C. (2000). In-Process Surface Roughness Prediction in Turning Operation via Using Accelerometer. Oral presentation in the 4th Annual Advanced Process Control Applications for Industry Workshop (APC 2000), Vancouver, Canada. April 27-28, 2000.

21. **Huang, L. H.** (1999). Development of on-line surface roughness prediction system in turning operation The 32nd Annual Conventional of the National Association of Industrial Technology. November 17-20, 1999, Panama City, FL

v. FUNDED GRANTS

1. **Huang, L. H.** (2007). Manufacturing Simulation Lab Teaching Station and Student Work Computers in Starcher 148. Funded $75,000.00 by the 2008 Spring Student technology fee.

2. **Huang, L. H.** (2007). Purchasing a universal material tester. Funded $13,000 by the 2007 Fall CoBPA program fee.

3. **Huang, L. H.** (2006). Travel to Present a Paper at the Fifth Wuhan International Conference on E-Business: Integration and Innovation through Measurement and Management in Wuhan, P. R. China, May 27-28, 2006. Funded $836 by the University Senate Scholarly Activities Committee.

4. **Huang, L. H.** (2004). Travel to Present a Paper at the ProModel Conference. Funded $411.39 by the Office of Instructional Development.

5. **Huang, L. H.** (2004). A Pilot Study for a Prototype Robot Positioning System in a Predefined Area. Funded $2,500 by the University Senate Scholarly Activities Committee.

6. **Huang, L. H.** (2003). Travel to Present a Paper at the International IPSI-2003 Conference. Funded $940 by the University Senate Scholarly Activities Committee.

7. **Huang, L. H.** (2003). Development of a New Course, Manufacturing Strategies (IT433). Funded $3,000 by the Office of Instructional Development.

8. **Huang, L. H.** (2002). Travel to attend the WinEstimator workshop. Funded $300 by OID.

9. **Huang, L. H.** (2001). Modernizing IT Lab Activities with a Digital Camcorder. Funded $1260 by the Student Technology Fee committee.

10. **Huang, L. H.** (2001). Travel to attend the Materials Science and Technology Educator workshop. Funded $298 by OID.

11. **Huang, L. H.** (2000). Upgrading MasterCam Software Package in the IT Computer Lab. Funded $1,000 by the Student Technology Fee Committee.

12. **Huang, L. H.** (1999). Travel to attend the Materials Science and Technology Educator workshop. Funded $310 by OID.

vi. PROFESSIONAL MEMBERSHIP

1. Member of National Association of Industrial Technology (NAIT)

2. Certified Industrial Technologist by NAIT

3. Member of Society of Manufacturing Engineers (SME)

4. Member of Epsilon Pi Tau (EPT)
5. Member of Institute of Electrical and Electronics Engineer, Inc. (IEEE) 2000 – 2005

IV. SERVICES

i. COMMITTEE MEMBERSHIP

1. University Loss Control Committee – Spring 2002 – present
2. College Technology Planning Committee – Fall 2006 – present
3. College Curriculum Committee – Fall 2006 – present
4. University Assessment Committee – Fall 2006 – Fall 2007
5. College International Business Committee – Fall 2005 – Fall 2006
6. College Ambassador– Fall 2005 – Fall 2006
7. University Scholarly Activities Committee – Fall 2003 – 2006
8. Adviser of the Association of Chinese Students and Scholars at the University of North Dakota – 2001 – 2006
9. International Task Force of the College of Business and Public Administration – Spring 2005 – present
10. Principal of the Grand Forks Chinese School – 2001 – 2005
11. College Entrepreneurship Committee – 2001 – 2004
12. College Assessment Committee – 2003 – 2005
13. College e-commerce force committee – 2000 – 2002
14. College Assessment Committee – 2003 – 2006
15. Department assessment activities
16. Department capstone course developing activities
17. Department curriculum development activities
18. Department IT program re-accreditation application activities
19. Department faculty member search committee

ii. PROFESSIONAL EDUCATIONAL/CONSULTANT ACTIVITIES

Each year in my Facilities Design and Computer Integrated Manufacturing (Manufacturing Strategies since 2003) courses, I assign students to do a facility design/lean manufacturing project for a company of their interest. When they were doing the project, I closely advise them trying to make the project professional. The final design was send back to the company for evaluation, as part of the project requirement. Most of these projects were appraised by the companies. Some of them were applied into practical use by the companies. In the past five years, companies receiving assistance from these course projects are:

American Wood, Inc. Grand Forks, ND, 4 projects
Dee, Inc., Crookston, MN
Cabelas, Inc. East Grand Forks, MN
Cirrus Design Corporation, Grand Forks, ND, 2 projects
Concrete, Inc., Grand Forks, ND
Hart Machine & Manufacturing CO, Grafton, ND
Marvin Windows and Doors, Inc. Grafton, ND
Material Testing Service, Inc., Grand Forks, ND

North Dakota Science Museum, Grand Forks, ND, 3 projects
Nuhill Technologies, Osseo, MN
Pribbs Steel, Grand Forks, ND
PS Doors, Grand Forks, ND
Telpro, Inc., Grand Forks, ND, 4 projects
TEAM Industry, Bagley, MN
Unimatic Inc., St. Louis Park, MN
United Parcel Service Warehouse, Grand Forks, ND
University of North Dakota, Grand Forks, ND
Young Manufacturing, Grand Forks, ND

iii. AWARDS

1. Awarded the 9th Martin Luther King Jr. Award for Service to the State of North Dakota. January 27, 2006
2. Awarded the 9th Martin Luther King Jr. Award for Contributions to the Spiritual Life of the Great Grand Forks community. January 27, 2006
3. Appreciation for Dedication and Contribution to the Grand Forks Chinese School as the Founder and First Principal for 5 Years, December, 2005.
4. Awarded for the outstanding accomplishment of the research project — *Process technology developing and quality improving of rice noodles*, from The Ministry of Economy and Trade, PRC, in 1992.
5. Awarded for the outstanding accomplishment of the research project — *Development of Xinhui orange juice processing*, from The Department of Economy and Trade of Guangong Province, PRC in 1986.