

Dr. Tien-Fu Lu: Short Curriculum Vitae

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EDUCATION:

- Ph.D. 1997 School of Manufacturing and Mechanical Engineering, University of South Australia, Mawson Lakes, 5095
Thesis Title: The Development of an Intelligent Workcell Robot
- Master of Science in Mechanical Engineering, 1990 Department of Mechanical Engineering National Cheng Kung University, Taiwan.
Thesis Title: Design and Manufacture of a Four Axes Robot
- Bachelor of Science in Mechanical Engineering, 1988 Department of Mechanical Engineering National Cheng Kung University, Taiwan

EMPLOYMENT:

2001-present: Lecturer, School of Mechanical Engineering, University of Adelaide.
Teaching duties include lecturing in electronics, mechatronics, and robotics; supervision of final year research projects; and postgraduate student supervision. Current research activities include: micro-manipulator, intelligent robotics and manufacturing systems, optimal motor design and control, insect and mobile robots, etc.

1997-01: Research Fellow/part-time Lecturer, Centre for Advanced Manufacturing Research, School of Manufacturing and Mechanical Engineering, University of South Australia.

Teaching duties include lecturing in robotics and manufacturing automation; offshore Master of Manufacturing Management Program in research methods, project management; and supervision of final year research projects; and postgraduate student supervision. Work also includes consulting and applied research in manufacturing, automation and robotics related areas.

1992 - 93: Lecturer, Department of Mechanical Engineering, Kao Yuan Junior College of Technology and Commerce, Taiwan

1990 - 92: Assistant Supervisor/Lecturer, Hawk Missile, Machinery Section, Army, Taiwan.

RESEARCH

- Awarded a Tan Chin Tuan Exchange Fellowship in Engineering (International) to spend December 2002 at the School of Mechanical and Production Engineering, Nanyang Technological University, Singapore.

PROFESSIONAL ACTIVITIES:

- Invited to be the conference Section Co-Chair, Robotics: Design, Control and Vision, 7th International Conference on Control, Automation, Robotics and Vision, 3-6 December 2002, Singapore.

CONSULTING ACTIVITIES

Since 1996, consulting projects include: manufacturing operation enhancement, development of semi-automatic sub-assembly system, ball valve re-design, product re-design, development of an automatic assembly system, productivity improvement study, Robotics applications analysis, and manufacturing efficiency improvement study. Clients include Philmac, Hills Industry, Korvest Ltd., Kemalex Plastics, Godfrey Furniture, Schefenacker, Detmold packaging and Tenix.

AREAS OF EXPERTISE

Micro/nano-motion robotics
Intelligent and insect robotics
Manufacturing system integration and automation

PROFESSIONAL BODY MEMBERSHIP

Member of the Institution of Engineers, Australia
Member of Manufacturing Society of Australia

PUBLICATION SUMMARY:

Author or co-author of over 40 technical papers in international refereed professional journals and conference proceedings as well as 1 book chapter in an edited book on Intelligent Systems Techniques and Their Application in Manufacturing Systems.