

JianGuo Han

677 Albert St., Fredericton, NB E3B 2C2, Canada

Phone: 506-455-6868 [H], 506-447-3271 [O]

E-mail: JianGuo.Han@unb.ca

Objective:

Process Control Engineer, to pursue a stimulating and satisfying technical career in the field of industrial control systems and manufacturing processes.

Summary of Qualifications:

- Strong educational background in graduate level electrical engineering.
- 9 years experience in installation, commissioning, maintaining of industrial control systems and related devices.
- Skilled in maintaining and troubleshooting for DCS and PLC.
- Skilled in industrial instruments development and electrical circuit design.
- Experienced in research and developing in high pressure liquid level sensors.
- Excellent communication and leadership skills developed through working history, student society involvement and toastmaster training.

Related Experience:

2002.09 – Present Master of Science, Mechanical Engineering, University of New Brunswick, Canada

- Design, simulation and testing of Temperature Control Systems and Screw Speed Control System for an ENGEL 150 Tonne Plastic Injection Molding Machine (research project), applying advanced control algorithm **Model Predictive Control**.

1997.04 – 2001.05 Industrial Automation Engineer, Research Institute of Petroleum and Petrochemicals, China

- PLC (Siemens/Omron) associated with Data Acquisition Module control systems used in laboratorial pilot-plants to dispose sewage water. **1999.05 – 2001.05**
- Industrial computer-aided (Programmable Center Controller – PCC) control systems used in an industrial plant to dispose wastewater generated by refineries for SINOPEC Shanghai Petrochemical Co. **1999.02 – 2000.01**
- Installation, testing and commissioning of DCSs (based on Honeywell S9000 controllers) applied in petroleum residue hydrotreating. These units were imported from Xytel Corporation, Chicago, IL, USA where I was trained for three months. **1997.08 – 1999.09**
- Designed and developed computer-aided control system for laboratorial scale hydrotreating unit in Urumchi, Xinjiang, China. **1996.05 – 1997.03**

1992.07 – 1997.03 Assistant Process Engineer, Research Institute of Petroleum and Petrochemicals, China

- Designed and developed the digital temperature controllers and the multi-loop (32 loops) temperature indicators based on Intel 80C51 microcomputer. **1994.06 – 1996.02**
- Coding, testing and maintaining the DCS (YOKOGAWA-100) for a middle scale hydrocracking pilot-plant. **1993.05 – 1994.02**
- Developed the vibrant sensor for high pressure (up to 300 kg/cm²) liquid level, as well as the control system. **1992.05 – 1994.09**

Education:

- Master of Science, Electrical / Mechanical Engineering, University of New Brunswick. GPA:3.9 (**September 2002 - Present**)
- Bachelor of Engineering, Industry Automation, Institution of Petroleum, Fushun, China. GPA:4.0 (**September 1988 - July 1992**)

Relevant training:

- Mold flow-plastic product design training, UNB, New Brunswick. **(2003)**
- Continuous Education for Excellent People, China **(2000)**
- Pertinent training in assembling, coding and debugging of small scale refinery unit control system for three months in Xytel Corporation, Chicago, IL, USA **(1998)**

Academic Affiliation:

- Vice President of Mechanical Engineering Graduate Student Society (MEGSS) **(2003)**
- Member of GSA (Graduate Student Association) General Council **(2003)**
- Member of UNB Toastmaster (communication and leadership training organization) **(2003)**
- Coordinator of English Club in Research Institute of Petroleum and Petrochemicals **(1999)**

Awards:

- Awarded First in Science and Technology Progress of SINOPEC for Wastewater Disposal Control System in SINOPEC Shanghai Petrochemical Co. **(2001).**
- Awarded Third in Science and Technology Progress of SINOPEC for inventing the Vibrant Sensor and Related Control System for high pressure (up to 300 kg/cm²) liquid level. **(1997)**

Computer Skills:

- High-level applications: MS office, Matlab, Simulink, LabWindows (CVI), AUTOCAD, C, C++, Visual Basic, Fortran, Protel.
- Low-level language: 80x86 assemble language (16 bits), 80x51 assemble language (8 bits).

References

Dr. Rickey Dubay

Associate Professor,
Department of Mechanical Engineering,
15 Dineen Drive, University of New Brunswick,
P.O. Box 4400, Fredericton, NB, E3B 5A3, Canada
E-mail: dubayr@unb.ca
Telephone: (506)-458-7770

Dr. C.P.Diduch

Professor,
Department of Electrical and Computer Engineering,
15 Dineen Drive, University of New Brunswick,
P.O. Box 4400, Fredericton, NB, E3B 5A3, Canada
E-mail: diduch@unb.ca
Telephone: (506)-447-3135

Dr. Shuchen Li

Professor,
Department of Industrial Automation, IT Engineering Institute,
Liaoning University of Petroleum and Chemical Technology,
1 Dandong Rd. West, Fushun, Liaoning, 113001, China
E-mail: lishuchen@lnpu.edu.cn
Telephone: (413)-665-0367