

CHARLES Q. ZHANG

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SUMMARY OF QUALIFICATIONS

- Profound experience in **Welding Engineering** of automotive and structures
- Member of **CWA** (Canadian Welding Association) and **ASQ** (American Society for Quality), Bachelor in Welding Engineering evaluated by **WES** (World Education Service), Designation in **International Welding Engineer**
- Experienced with hands-on **automation** and **robotics MIG** and **Resistance welding** by employing **Motorman, FANUC** and **Panasonic** systems
- Provided project management including cost analysis and reduction, quality improvement and optimization of process
- Knowledge of **W47.1, W59** and pertinent **CSA codes** as well as General Motors Engineering Standards (**GM6122M** Automotive Arc Welding Specification)
- Experienced with quality assurance system according to **ISO 9002** and **QS9000**
- Flexible team player, fast learner who is well organized and detail-oriented

PROFESSIONAL EXPERIENCE

WELD TECH (2004/3-Present)
DBG Group Shawson Facility.

Mississauga, ON.

- Supported in optimizing weld quality and process capability
- Maintained welding engineering data and technical specifications
- Provided ongoing coaching and training for welding production associates
- Modified robotics MIG welding programs and automation procedures

PRODUCTION TECHNICIAN (2003-2004)
Faurecia Automotive Seating Canada Ltd. Bradford Division/ Barrie Division

- Maintained automation and robotics welding production of automotive seating
- Implemented trouble-shooting for MIG and resistance welds of seating frame
- Provided **PM** (Preventive Maintenance) for robotics welding cells

DEPUTY CHIEF ENGINEER/SR. WELDING ENGINEER (1996-2001)
Xinjiang Industrial Equipment Installation Engineering Co., China

- Evaluated documentation including Welding Procedure Specifications Data
- Coordinated field projects process and supervised welding staff
- Instructed on field assembling and of steel structure and sheet metals

WELDING ENGINEER/DIRECTOR (1993-1996)
Xinjiang Industrial Equipment Installation Engineering Co., China

- Documented manufacturing procedure and final inspecting/test for sheet metals as well as pressure vessels and tubes/piping

- Managed industrial engineering projects and trained welding operators

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WELDING ENGINEER (1988-1993)

Xinjiang Industrial Equipment Installation Engineering Co., China

- Welded industrial steel structures and managed equipment installation
- Reported to management staff and prepared welding process specification
- Kept procedure documentation and inspection reports related to quality control
- Worked closely with welding team ensuring the completion of projects on time and within budget

WELDING ENGINEER, TECHNICAL CENTRE (1986 – 1988)

Xinjiang Automobile Company (DongFeng Xinjiang Automobile Co. Ltd.), China

- Provided welding processes and procedures for truck bodies and trailers
- Selected welding equipment for production line and designed fixture for truck bodies and trailers manufacturing
- Provided technical support for development of special trucks
- Prepared welding plan of TQC (Total Quality Control)

OTHER QUALIFICATIONS

Welding Procedures Employed

Gas Metal Arc Welding (MIG)
Resistance Welding
Gas Tungsten Welding (TIG)
Submerged Arc Welding

Quality Control/Quality Assurance

Total Quality Control Program
NDT
ISO 9002 Quality Assurance Program
MT
QS9000 Quality System

Base Materials Used

Carbon, HSLA (High Strength Low Alloy) steel
Stainless steels including Austenitic, Ferritic,
Martensitic
Aluminium Alloys and Copper

Inspection

Experienced with both destructive test and
such as RT (Ray-Test), UT (Ultrasonic Test),
(Magnetic Test) and PT (Penetrate Test)

EDUCATION

MASTER'S DEGREE IN MATERIALS PROCESSING ENGINEER SCIENCE 1996-1999

BACHELOR'S DEGREE IN WELDING ENGINEERING SCIENCE 1982-1986

Xi'an Jiaotong University, China

OTHER TRAINING

- Motors and Control, Sheridan College, Brampton, ON (2006)
- PLC Applications, Humber College, Toronto, ON (2005)
- MOTOMAN XRC Basic Programming Training, YASKAWA MOTOMAN CANADA LTD, Mississauga, ON (2004)
- ArcTool Operation and Programming Training, FANUC, Detroit (2003)
- Quality Assurance and Control Training, Skills For Change, Toronto, ON (2003)
- CSA Welding Standards Seminar, Gooderham Centre for Industrial Learning,

- Mississauga, ON (2002)
- ISO9000 Quality Management System, Beijing (1996)
- Certificate in International /European Welding Engineer. Haerbin (1995)

LIST OF PROJECTS

Projects Handled: (2004/3-Present)

- GMT 350 Rear Cross Member Robotics MIG Welding (Motoman XRC System)
- MIG Welding of Fuel Tank Stand Off Assembly, Lower Control Arm and Transmission Support Bracket Assembly (Motoman MRC System)
- Middle Rail MIG Welding (Panasonic System)
- Battery Support Box Nut Welding (Resistance Welding)

Projects Handled: (2003-2004/3)

- Epsilon Project-Frames welding of 2 ways, 4 ways and 6 ways driver and passenger's seats (robotics MIG/Resistance welding of bending tubes and sheet metals), **FANUC** and **Panasonic** Robots.
- Malibu Project-Recliner Parts of Seat, **Motorman** Robots

Projects handled: (1988-2001)

- Xinjiang Steel Company Electrical Blast Shell Welding
- Urumqi International Air Port Maintenance Warehouse Welded Steel Construction Project (Totally 800 tones)
- Manufacture of oil trailers (for 5 t Dong Feng model)
- Dushanzi Petrochemical Company Ethylene Apparatus Installation Project (CAD \$5,000,000)
- Peacock River Arc Steel Pipe Contained Concrete Bridge Project (150 metres span)

Projects handled: (1986-1988)

- Welding of chassis and trailers of Dong Feng trucks (Model EQ1410, 0.7-1.2 mm mild steel sheet and 6-8 mm 16Mn steel plate)
- Welding of camping carriages used in desert land
- Development of special trucks such as cranes, piping trailers and trucks used in the desert land
- Resistance welding of sheet metals

Reference available upon request