

Qingbo(Eric) Zhang
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Qingbo(Eric) Zhang is a senior E/I&C Engineer with over 15 years of experience in electrical design, PLC system design, control panel testing, commissioning and arc flash analysis. After receiving his B.Sc. in electrical engineering at the University of Manitoba, he has worked in several facilities in a variety of capacities. Demonstrated capacity in design, interpretation and presentation of engineering drawings, electrical schematics and literate in AutoCAD and Microstation. Strengths in control system design, as well as on-site commissioning. Excellent interpersonal communication skills with the ability to work well with others, both in supervisory or support roles. Knowledgeable in computer applications including Microsoft Word, Excel, PowerPoint, MS Project, SKM, Rockwell softwares, Unity Pro XL and Vijeo Designer.

Education

2006	B.Sc., Electrical Engineering, University of Manitoba, Winnipeg
1995	B.Sc., Mechanical Engineering, Beijing University of Aeronautics & Astronautics, Beijing

Experience

2013-Current	AMPS Services Inc., Winnipeg, Canada Senior E/I&C Engineer, P. Eng.
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2007-2013	Celco Controls Ltd., Winnipeg, Canada Electrical Designer, P.Eng.
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- ◆ Vale
 - Utility Cooling Tower Replacement
 - Electrical design and preparation IFC package
 - MicroLogix PLC programming and commissioning
 - Mitsubishi VFD commissioning
 - Maple HMI modification and commissioning
 - 1D Surface to Underground Fuel Delivery
 - Assisted in electrical design and preparation IFC package
 - Surface and underground PLC-5 programming and commissioning
 - Wonderware HMI modification and commissioning
 - T3 Telemecanique PLC Replacement

- FEL 2&3 Study
- Electrical design and preparation IFC package
- On-site assistance of PLC installation
- ControlLogix PLC programming and commissioning
- Wonderware HMI modification and commissioning
- T1 Telemecanique PLC Replacement
 - Electrical design and preparation IFC package
 - ControlLogix PLC programming and commissioning
 - PanelView PLUS 6 HMI programming and commissioning
 - Wonderware HMI modification and commissioning
- T1 Sandfill Plant Equipment Automation
 - Electrical design and preparation IFC package
 - ControlLogix PLC system design, programming and commissioning
 - Wonderware HMI modification and commissioning
- T3 4250L Slurry Plant
 - SLC-500 and PLC-5 programming and commissioning
 - PanelView Plus 6 HMI programming and commissioning
 - Wonderware HMI modification and commissioning
- Mill 2A6 and A3 Pump and VFD Installation
 - Electrical design and preparation IFC package
- Mill D2 Tailings VFD Replacement
 - DeviceNet design and commissioning
 - ControlLogix PLC program modification and commissioning
- Birchtree Mine Pumps Control
 - ControlLogix PLC programming and commissioning
 - Wonderware HMI modification and commissioning
- Birchtree Mine NO2 and CO Alarm Control
 - Electrical design and preparation IFC package
 - ControlLogix PLC program modification and commissioning
 - Wonderware HMI modification and commissioning
- Birchtree Mine Fan Replacement
 - On-site assistance of installation
- Mill PAX Mixing System
 - Electrical design and IFC package preparation
 - On-site commissioning assistance
- Mill Quick Lime Mixing System
 - Electrical design and IFC package preparation

- On-site commissioning assistance
- Mill PSN Pre-conditioning Sump System
 - Electrical design and IFC package preparation
- Mill #2 Crusher Optimization
 - Electrical design and IFC package preparation
- Mill CS2 Monitoring FEL3 Study & Detailed Design
 - Electrical design and FEL3 Study Report
 - IFC package preparation
- T1 Scrubber Control Upgrade
 - Electrical design and preparation IFC package
 - ControlLogix PLC program modification and commissioning
- T1 Ventilation PLC Upgrade Detail Design
 - Electrical design and IFC package preparation
 - ControlLogix PLC programming and commissioning
 - Wonderware HMI modification and commissioning
- T1 Dewatering PLC Upgrade FEL3 Study & Detail Design
 - FEL3 Study Report, Electrical design and IFC package preparation
 - ControlLogix PLC programming and commissioning
 - Wonderware HMI modification and commissioning
- T3 PLC Upgrade FEL3 Study & Detail Design
 - FEL3 Study Report, Electrical design and IFC package preparation
 - ControlLogix PLC programming and commissioning
 - PanelView Plus HMI programming and commissioning
 - Wonderware HMI modification and commissioning
- T1 Air & Water Monitoring Detail Design
 - Electrical design and IFC package preparation
 - ControlLogix PLC programming and commissioning
 - Wonderware HMI modification and commissioning
- T3 1D 4900L DeWatering Detail Design
 - Electrical design and IFC package preparation
 - ControlLogix PLC programming and commissioning
 - Wonderware HMI modification and commissioning
- T1 1C Pumphouse PLC Upgrade Detail Design
 - Electrical design and IFC package preparation
 - ControlLogix PLC programming and commissioning
 - Wonderware HMI modification and commissioning

- ◆ Naleway Food
 - Misc. PLC trouble-shootings
 - Siemens LOGO PLC programming & commissioning
- ◆ Louisiana Pacific Canada Swan Valley OSB
 - Debarker #1 & #2 Replacement
 - Electrical design and preparation IFC package
 - 5kV Starter Replacement
 - Electrical design and preparation IFC package
- ◆ Canadian Nuclear Laboratories Whiteshell
 - Hot Cell Exhaust Fan Control Upgrade
 - Electrical design and preparation IFC package
 - 5kV Power Skid Design Support
 - Electrical design support for 5kV power skid installation
 - WMA 4160V Overhead Line Expansion
 - Electrical design and preparation IFC package
- ◆ Hudson Bay Mining & Smelting Co., Limited
 - Snow Lake, Anderson Lake & Reclaim Seacans
 - Electrical design and preparation IFC package
 - Stall Concentrator Upgrade Design Review
 - Electrical design support for Stall Concentrator Upgrade
 - New Britannia Mill
 - E/I&C design, Process Control Network design
 - ControlLogix PLC programming and commissioning
 - PF753 and E300 programming and commissioning
- ◆ Cheverfils Co-op Water Treatment Plant Upgrade
 - Electrical design and preparation IFC package
 - Yaskawa VFD commissioning
 - Electrical system commissioning
- ◆ Husky Minnedosa
 - New Dust Collector PLC&HMI
 - ControlLogix PLC program modification and commissioning
- ◆ Klondex Mines
 - Tailings Slurry Pumping Project
 - Electrical design and preparation IFC package
 - Schneider M340 PLC programming and commissioning
 - EATON SVX9000 VFD commissioning

- Mill Tailings Pump VFD Addition
 - Schneider M340 PLC program modification and commissioning
 - EATON SVX9000 VFD commissioning
 - Magelis HMI programming and commissioning
- Underground Loading Pocket PLC Upgrade
 - Schneider M340 PLC programming and commissioning
 - On-site assistance of local control panel Installation
- ◆ City Thompson
 - Gas Monitor & Control Panel Electrical design and preparation IFC package
- ◆ La Cocina Foods
 - PLC control panel design and preparation IFC package
 - MicroLogix PLC programming
 - PanelView Plus 7 HMI programming
- ◆ Maple Leaf Food
 - Maple Leaf Winnipeg Waste Treatment Plant Controls
 - Rothsay Water Upgrade Controls
 - Rockwell CompactLogix PLC systems design and testing
- ◆ National Energy
 - St. Theresa Point Fuel Storage Facility Controls
 - Wasagmack Bulk Fuel Storage Facility Controls
 - Manto Sipi Cree Nation Bulk Fuel Storage Facility Controls
 - Automation Direct DL205 Series PLC systems design
 - Manto Sipi Cree Nation Bulk Fuel Storage Facility Arc Flash Study
 - SKM modeling and arc flash analysis of facility
- ◆ McCain Food
 - Oily Water and Mud Removal Systems
 - Rockwell FlexI/O PLC system design
 - Carberry WWTP PHASE II & III & Biogas Blowers Upsize
 - Rockwell ControlLogix PLC system design and testing
 - Ethernet, DeviceNet, ControlNet and Profibus communication network design
- ◆ Manitoba Hydro
 - Riel Station Controls
 - Deacon Booster Pumping Station Upgrade

- Schneider Quantum PLC systems design
 - Riel Station Booster Pumping Station
 - Schneider M340 PLC system design
- ◆ Ultra-Span
 - Hollowcore Equipment
 - Siemens Micromaster VFD control panels design and testing
 - Siemens LOGO PLC system design and testing
- ◆ Potash Corporation of Saskatchewan Inc.
 - Cory Red Product Expansion
 - MCC (Rockwell PowerFlex 700 VFD) design and testing
- ◆ Winnipeg School Division
 - David Livingstone School, Fort Rouge School, Gordon Bell High School, and R.B. Russell School Arc Flash Study
 - SKM modeling and arc flash analysis of facility
- ◆ Water/Wastewater Treatment Plant PLC Controls
 - Moose Jaw Wastewater Treatment Plant Upgrades
 - Whitemouth WTP Upgrade
 - God's Lake WTP
 - Norway House STP
 - Wabowden Water Treatment Plant Upgrade
 - District of Lillooet Water Treatment Facility
 - Nanaimo Reservoir Upgrade
 - Rockwell PLC systems design and testing
 - Winnipeg North End Hauled Wastewater Receiving Facilities Controls
 - Winnipeg North End Wastewater Plant Lab Reno Control Panel
 - Schneider M340 PLC system design
 - Mountain Meadow Water Supply Upgrades System
 - Schneider SCADAPack PLC system design
 - Mitsubishi VFD control design and testing
- ◆ Refrigeration Controls
 - Fairfax Refrigeration Control Panel
 - Hazlet Ammonia Refrigeration Panel
 - Hamilton Arena
 - Communiplex - Refrigeration Control Panel (Ammonia)
 - Virden Arena Control Panel

- Langford Arena Control Panel
- Virginia Arena Control Panel
- Grand Prairie Refrigeration Control Panel
- Zenon Park Refrigeration Control Panel
 - Various motor starter, VFD, and Rockwell MicroLogix PLC systems design and testing
- ◆ Airport Baggage Handling System
 - Calgary Airport Baggage Handling System
 - Winnipeg Airport Baggage Handling System
 - Motor starter, Rockwell ControlLogix PLC systems, and PowerFlex 40 VFD testing

2006 Gerdau AmeriSteel Manitoba Mill, Selkirk, Canada
Engineering Support Student

- ◆ Designed, developed and implemented a database search tool in Excel (Visual Basic)

1998-2001 Radar Systems Technology Inc., Beijing, China
Sales Engineer

- ◆ Sales of microwave components and testing equipment

1995-1998 Beijing Aerospace Propulsion Institute, Beijing, China
Engineer, E.I.T

- ◆ Liquid Testing facility support engineer

Professional Development

2012 Electrical Code, Red River College

Professional Association

2006 - Present Association of Professional Engineers and Geoscientists of
 Manitoba – Member

Language

English, Chinese