

CURRICULUM VITAE

Andrew McKeown

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Education and Qualifications:

Bachelor of Engineering Degree - Chemical and Process Engineering

From February 1998 to December 1999
Graduated with First Class Honours
University of Canterbury (Christchurch)

New Zealand Certificate of Engineering - Industrial Measurement and Control

From February 1991 to December 1997 – completed by correspondence
Academic requirements completed (All 'A' Passes) – completed November 1997
36 months recognised work experience – completed June 1996

Industrial Instrumentation Trade

Advanced Trade Certificate – issued November 1996
Trade Certificate – issued July 1996
Four year Apprenticeship – completed December 1994

Additional Training:

Steam Seminar – Spirax Sarco – 2019
Effective Business Writing – Write – 2018
Hazard and Risk Management – Safety 'n Action – 2018
Permit Receiver & Safe Work Systems Procedures – Safety 'n Action – 2018
Site Safe Passport (Consultants) – Site Safe - 2018
Advanced Communications Skills – Gilmour Consulting – 2015
HAZOP Basic and Leaders Course – Orica – 2014
Chemical Handling Training Course – Opus – 2011
Practical Process Control and Tuning of Industrial Control Loops – IDC – 2011
Practical Safety Instrumentation & Emergency Shut-Down Systems – IDC – 2005
Project Management Casebook – IPENZ – 2004
Electrical Service Technician Registration – EWRB – 1994
Electrical Service Technician Practising Licence – expired 30 June 2019

Employment History:

SENIOR PROCESS ENGINEER

January 2018 – Present

Vertex Engineers Limited, 2 Barnett Place, Te Rapa Park, Hamilton 3240

www.vertex.co.nz

Responsibilities:

- Mentor and lead small teams of process, chemical, electrical and automation engineers and designers for the design and implementation of projects and work packages
- Provide process and chemical engineering design and construction documentation
- Deliver complete design and documentation for electrical and automation systems
- Manage the construction of small to medium projects and project parts on brown field installation
- Undertake, as commissioning engineer and commissioning manager, the delivery of fully operational industrial projects
- Provide clear and concise project design documentation, reports and costings
- Lead and bid on proposals for client projects
- Client relationship management including marketing, client support and after project support
- Report on work package and overall project budget, with forecasts of projected expenditure
- Lead and document process risk assessments and HAZOPs
- Maintain company systems and provide continuous improvement and development of processes and procedures

Major Projects (with roles):

- Westland Milk Products – Milk Segregation Project – 2019 to 2020 – Process and Automation Engineer, Commissioning Lead for Other Plant Tie-Ins, Operational Troubleshooting
- Project Colombia – Bay of Plenty based Food Processing Facility (Concept Development and Costing \$100M+) – 2018 to 2020 – Project Manager, Project Process Designer, Project Costing
- Fonterra Whareroa – SIG Line Butter Patting Machine Replacement – 2018 – Electrical and Automation Designer, Process Engineer, Construction Manager, Commissioning Manager
- Fonterra Morrinsville – Frozen Butter Reworker Replacement – 2018 – Construction Manager, Commissioning Manager, Process Engineer

SPECIALIST PROCESS ENGINEER

January 2010 – January 2018

Oji Fibre Solutions (NZ) Limited, Tasman Mill, Fletcher Ave, Kawerau 3127

(Formerly Carter Holt Harvey Pulp & Paper Limited)

www.ojifs.com

Responsibilities:

- Provide process and chemical engineering design and operational troubleshooting across all areas of the mill operations
- Preparation of project reports and design investigations
- Identification and development of continuous improvement projects. These include process, environmental and safety related projects
- Process optimisation through procedural automation implementation and control loop tuning
- Facilitate and lead HAZOP and CHAZOP studies
- Control systems engineering, design and troubleshooting to support production uptime and optimisation projects

- Capital engineering support for new projects and upgrades – process and control systems design and implementation
- Implementation of control systems designs across all of the control systems at the mill
- Facilitate and provide coaching, training and mentoring of process engineers, control systems engineers and maintenance staff on process and control systems design and optimisation
- Provide technical support, design review and mentorship for process and control systems projects by internal staff and external contractors
- Subject Matter Expert for electrical, instrumentation and control systems during the Formal Safety Assessments across the entire mill for the Major Hazard Facility (MHF) classification
- Recommend and design for new and upgraded instrumentation and control systems
- Management and improvement of PI ProcessBook and DBDOC as tools for better transparency and visualisation of our mill processes, control systems and associated documents
- Preparation and amendment of documentation including process functional descriptions, loop drawings, P&ID drawings and control systems configuration diagrams

PROCESS CONTROL TEAM LEADER 2003 – 2010

COMPANY ASSOCIATE 2006 - 2010

March 2006 – January 2010

Intellex Limited, Level 1, 77 Grafton Road, CBD, Auckland 1010

February 2003 – March 2006

Intellex Limited, Level 1, 27 Kings Crescent, Lower Hutt 6009

www.intellex-pacific.com

Responsibilities:

- Day to day management of internal and contract staff as required to fulfil the resource requirements for project deliveries
- Provide mentorship and technical support for graduate engineers within Intellex
- Preparation of detailed budgets, proposals and specifications for electrical, automation and process services projects
- Plant and systems assessments for operational, monitoring and energy usage improvements
- Electrical and automation systems detailed design and documentation including automation systems architecture design
- Design and specification of electrical cabinets, PLC cabinets, Motor Control Centres and Main Switchboards
- Design, selection and specification of PLC and SCADA automation systems
- Process and building services investigation, assessment and design including HVAC systems, boilers, hydraulic services, controls and instrumentation
- Electrical installation contract management including management of contract variations.
- PC, PLC and SCADA (HMI) configuration and programming
- Preparation of detailed as-built Operations and Maintenance manuals and documentation for electrical, building services and automation projects
- In-house peer review for electrical and automation engineering project designs
- Development of internal standards and systems to facilitate the efficient collation and dissemination of information from the process contractor through to the preparation of detailed installation documentation
- Assessments and dossier preparations for both gas and dust hazardous areas

Major Projects:

- Fonterra Brands Tip Top Ice Cream – Engineroom #4 Expansion Project – 2008 to 2009
- Open Country Dairy Wanganui – New Milk Powder Plant Project – 2008 to 2009
- Open Country Dairy Waharoa –Milk Powder Plant Addition Project & Upgrade – 2007 to 2009
- Open Country Dairy Awarua – New Milk Powder Plant Project & Upgrade– 2007 to 2009
- Synlait Milk – New Milk Powder Plant Project – 2007 to 2008
- Fonterra Lichfield – Whey Plant Upgrade – 2007 to 2008
- Cadbury Confectionary – New Sweetened Condensed Milk Plant Project – 2006 to 2008
- Fonterra Maungaturoto – Milk Powder Plant Upgrade – 2006
- New Zealand Fire Services – National Training Centre in Rotorua – 2005 to 2006
- Canterbury Meat Packers – Rangitikei Lamb Processing Plant – 2004 to 2005
- Parengarenga Fish Farm – Land Based Kingfish Farming – 2004 to 2005
- Alliance Group Dannevirke – Lamb Processing Plant Upgrade – 2003 to 2004 & 2006 to 2008
- Mobil Oil New Zealand – Earthquake Shutdown System for Oil Pipeline System – 2003 to 2004

MEDICAL TECHNICAL OFFICER

March 2002 – January 2003

April 2001 – December 2001

Medical Equipment Management Service, Kings College Hospital, London, United Kingdom

MAINTENANCE ENGINEER

March 2000 – August 2000

North's Bun Company Limited, 719 Halswell Junction Road, Christchurch, New Zealand
(No longer in existence – factory shipped to Malaysia)

RESEARCH ASSISTANT (To Professor Ken Marsh)

February 2000 – March 2000

Department of Chemical and Process Engineering
University of Canterbury, Private Bag 4800, Christchurch, New Zealand

ELECTRICAL/ELECTRONICS SERVICE TECHNICIAN

March 2000 – August 2000

November 1998 – February 1999

PDL Plastics South (Now Alto Plastics), 68 Waltham Road, Christchurch, New Zealand

INDUSTRIAL INSTRUMENTATION APPRENTICE 1991 – 1994

INDUSTRIAL INSTRUMENTATION TECHNICIAN 1994 – 1998

February 1991 – February 1998

Tasman Pulp and Paper Company Limited (Now Norske Skog and Oji Fibre Solutions)
Private Bag, Fletcher Avenue, Kawerau, New Zealand