

ROBERT ANTHONY YOUNG

Phone 0408 683 963

TERTIARY EDUCATION:

- 1965 - Electrical Engineering Certificate.
Newcastle Technical College
- 1962 - Post Trades Electronics
Newcastle Technical College
- 1969 - Part time Degree in Electrical Engineering.
(Final year incomplete) The University of Newcastle

EMPLOYMENT:

2003-2008

Robert A Young & Associates Pty Ltd
Electrical Engineer/Managing Director

Major Projects:

Project Co-ordinator – Electrical – United Group Rail
Project coordination and design for the Sydney Outer Suburban Electric Rail Cars

Principal Electrical Engineer – United Group Rail
Group Principal Engineer

Engineering Manager – Prospector - United Group Rail
Management of Design and retrofit program for the Prospector Diesel Electric Rail Cars for PTA
Perth

Senior Electrical Engineer – United Goninan Newcastle
Outer Suburban Car design CAD section.
Responsible for integration of the engineering design into the detailed production drawings
design checking, equipment application verification and final production drawing checks.

Senior Electrical Engineer – United Goninan Newcastle.
Project coordination and design, Diesel Electric Rail Cars for SRA Hunter region
Responsible for programming the work, controlling daily costs, preparation of contract
deliverables, progress reporting, preliminary and critical design reviews.

2001-2002

Tenix Defence Melbourne

Engineering Operations Manager and Electrical Technical Authority for the design and build of ANZAC class Naval Ships.

Security clearance – “SECRET”

Responsible for the design integrity of all ships, and management of the *electrical, mechanical, structural and outfit design operations* associated with the construction, upgrade and support of ANZAC ships. Technical authority for all ships electrical systems.

Tenix Defence Melbourne

Senior Electrical Engineer / Senior Project Engineer and Electrical Technical Authority for the design and build of ANZAC class Naval Ships.

Security clearance – “SECRET”

Responsible for the design integrity of all ships, and management of the *electrical design and documentation* associated with the construction, upgrade and support of ANZAC ships. Final technical authority for all ships electrical systems.

1999 – 2001

Robert A Young & Associates Pty Ltd

Electrical Engineer/Managing Director

Major Projects:

Forgacs Dockyard - Electrical Engineer / Draftsman

Design, manufacture, installation and commissioning of Power System and control for HMAS MANOORA.

Forgacs Dockyard - Electrical Engineer / Project Manager

Concept development, design, Class approval, operation and commissioning procedures, manufacture, installation and commissioning of a new 4x1MW Diesel Generator Power generation system for HMAS KANIMBLA

Design, development, and programming of a unique AutoSync PLC SCADA system for the automatic control, load share and synchronising of all ships generators.

1994 – 1999

Robert A Young & Associates Pt Ltd

Electrical Engineer/Managing Director

Major Projects:

Establishment and operation of a computer shop at Toronto NSW.

Writing of comprehensive Invoicing and tracking software package plus Visual Basic and PLC programs.

J W Young & Associates - Citect and PLC work associated with two Queensland Cotton Gins.

Capral Aluminium Smelter Kurri Kurri - Design Installation and commissioning of the Thimble Press and rod handling system associated with Cast Iron Rodding for Smelter Annodes

Long Airdox - Commissioning of two train load-out systems Including Hydraulics and PLC/Citect control systems.

Capral Aluminium - Engineering Services, Capital projects including Electrical design, PLC programming Installation and commissioning of plant.

1982 – 1994

Penta Cad Pty Ltd

Electrical Engineer/Managing Director

Major Projects:

F.F.E. Aldridge (Elect) Pty Ltd - Project Engineer for Electricity Commission of NSW. 330 KV switchyard augmentation at Tamworth and Armidale

F.F.E. Aldridge (Elect) Pty Ltd

Project Engineer/Site Manager for Alcan Aust Ltd 132 KV switchyard construction and assembly of 4 x 43 MVA Rectifiers

F.F.E. Aldridge - Company Investigating Officer for Directors - Investigating operations in the F.F.E. Queensland Division.

Establishment of Penta Cad as an approved researcher in the area of microcomputers for industry, VHF/UHF Amplifiers for TV and Fringe area TV antennas.

Establishment of manufacturing facilities for TV antennas and boosters.

G H Varley Pty Ltd - Conversion of MV "Iron Carpentaria" and MV "Iron Curtis" from gas turbine to diesel propulsion Electrical Engineering, detailed design, installation and commissioning of all electrics, electronics and instrumentation.

Forgacs Dockyard - Electrical engineering, design and installation of plant for Antarctic seismic service on the Canberra controlled research vessel MV Rig Seismic.

Australia Post Customs - Computer/PLC development.

Consultant to Aust. Post for new mail exchange customs sorting control system, installation commissioning and training.

James Woolley Pty Ltd - Consultant Electrical Engineer to carry out detailed electrical design, installation and commissioning of new main alternators on the Caltex vessel M.T. John Hunter.

ICI Chemicals Botony - On Site Consultant Electrical Engineer

Operational maintenance & repairs and preparation for a major shutdown. Instrumentation and PLC programming.

Establishment of Computer Drafting facilities at Penta Cad Pty Ltd

Establishment of Penta Cad Computers as the hardware and software sales and service division of Penta Cad Pty Ltd.

Delta Hover Pty Ltd - Part design, drawings, manufacture and commissioning of two ten seat hovercraft

James Woolley Pty Ltd - Conceptual design and drawings for the Newcastle MSB Suction Dredge

Adelaide Ship Construction /Brambles - Design Manufacture, installation and commissioning of all electrics, electronics PLC control and instrumentation for two 29 Metre harbour tugs

Adelaide Ship Construction /Brambles - Project planning, quality control, quality assurance for three tug boats for Brambles / Adelaide Ship

Adelaide Ship Construction /Brambles - Project Manager for the construction of the above tugs for Brambles / Adelaide Ship.

1981 - 1982

Penta Cad Pty Ltd – Electrical Engineer/Managing Director

Family company operating in support of R.A.& S.K.Young Electrical Engineering Services

Major Projects:

Sulphide Corporation - Capital project Engineer - Design

Steetly Industries . Mechanical and structural design and specification for Bentonite drying and conveying system.

Hardboards Aust. Ltd. Design manufacture, program and commission a microcomputer to monitor and report on steam gun operating parameters.

1981 - 1982

Tyler, Young & Parrott Pty Ltd

Foundation partner, director and company secretary for a successful engineering consulting business.

1979 – 1982

**R.A. & S.K. Young Electrical Engineering Services
Electrical Engineer/Managing Director**

Family partnership in design, drafting Engineering and manufacture in the fields of Electrical, Instrumentation, Electronics, minor mechanical and structural:

Major Projects:

Austin Drafting - Project Engineering and drafting for Alcan Aust. Kurri Kurri

Alcan Aust. Kurri Kurri - Project Supervisor Electronics

Alcan Fabricators - Design and manufacture of electronic bag house filter controls.

1978 – 1979

Varley Engineering Newcastle - Electrical Engineer

General electrical contracting, Switchboard design and manufacture, Telemetry design and manufacture, Motor rewinding, Ship repair and Industrial installations.

1976 – 1978

Hunter Engineering Sales - Internal Sales and Engineering

Office and Sales Administration, Motor Starter manufacture, Power factor correction systems, Resistance bank manufacture, Project design and installation.

1975 – 1976

Kilpatrick Green - Manager N.S.W. Country Area

Contract Administration, estimating, purchasing, design and construction of major electrical and civil installations, including:

Kandos Cement Electrics, Tamworth 330 KV Sub Augmentation, Westcliff Colliery Washery, Eden Wood Chip mill. Woollarawang Power Station.

1974 – 1975

Laporte Australia Ltd Bunbury W.A - Electrical Engineer

Administration and supervision of a major plant expansion. Electrical maintenance and construction associated with a Chemical Processing Plant.

1973 – 1974

Hamersley Iron (C.R.A.) Tom Price W.A. Plant - Assistant Superintendent –Maintenance

Administration and supervision of all trades and reporting to the Production Superintendent. Planned maintenance of primary, secondary and tertiary crushers, vibrating screens and

conveyors, belt conveyors, stackers, reclaimers, rail loading and storage bin facilities, dust collection etc.

1971 - 1973

Hamersley Iron (C.R.A.) Tom Price W.A. - Senior Electrical Engineer

Administration and supervision of all electrical maintenance and construction associated with power generation, distribution in town, plant mine, township services, hospital, schools etc, Crushing and screening plants, conveying, stacking and reclaiming. Rail and rail loading facilities, mine facilities, trucks, shovels & heavy equipment. Telephone and radio communications. Water and sewerage systems and Power Station.

1970 – 1971

Central Engineering Services (C.R.A.) Tom Price W.A.- Senior Electrical Engineer.

As for Site Electrical Engineer but with more administrative and planning responsibilities.

1969 – 1970

Central Engineering Services (C.R.A.) Tom Price W.A.- Site Electrical Engineer.

Administration of contracts. Supervision of installation and commissioning of all electrical installations at Tom Price Power Station, town, mine and plant

1968 – 1969

Sulphide Corporation Newcastle (C.R.A.) - Design Draftsman - Electrical

Design supervision of installation and commissioning of electrical equipment associated with heavy industry. Preliminary design, specifications and estimates for all electrics and instrumentation for a major smelter expansion.

1968 -

Humes Ltd (Steel Division) - Works Engineer

Administration and supervision of all trades, plant maintenance & construction, budget control, project feasibility, quality control etc.

1965 – 1968

Sulphide Corporation Newcastle (C.R.A.) - Trainee Electrical Engineer

Design installation & maintenance of H.T. & L.T. distribution, protection & control, Instrumentation & control, Large motor starting and control, Electronic equipment, V.S.drives, Digital logic and control.

1960 – 1965

John Lysaghts (Aust) Newcastle - Trainee Certificate Engineer - Electrical

Apprentice Electrician

H.T. & L.T. Distribution, control motor starting, protection electronics, variable speed drives, special welders, static switching and communications.

Completed Electrical Apprenticeship.

1959 – 1960

BHP Newcastle Trainee Certificate Engineer - Mechanical.

Toolmaking, Fitting & Turning