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| Boris Torban |  | e-mail btorban@tpg.com.au  mobile 041 1480599  mail 10 Dudley Street  Pagewood NSW 2035 |

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|  | Profile |
| I am a dedicated professional with 21 years of experience in engineering and project management. I excel in and strive for project management success with a focus on delivery, results orientation and “can do” attitude. I have extensive experience managing multi-disciplined projects in Automation, Transport and Utilities, providing consultancy and sharing my experience in the industry.  My responsibilities included:   * Feasibility studies, Concept and Detailed electrical designs - maximum power demand, voltage drop calculations, single line diagrams and electrical reticulation drawings, cable size calculations, cable route design * Systems assurance and due diligence (SFAIRP) reports * Safety assurance systems development and risk analysis * Design briefs and technical specifications for multidisciplinary designs * Contract administration including GC21 * Tendering and contract award including engineering budgets’ preparation and tenders’ evaluation * Engineering design review and Peer review, design stakeholders’ coordination and site audits * Construction and commissioning of HV infrastructure – power transformers, circuit breakers, distribution switchboards, capacitor banks, HV cables and transmission lines including pilot wire primary and back up protection * Construction and commission of LV infrastructure – LV distribution boards, power factor correction equipment, building security systems, electrical switchgear and cabling, CCTV and Access Control, Intercoms, UPS systems, communications copper and fibre optic systems * Factory Acceptance Testing and Site Acceptance Testing |

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| Qualifications |  |
| Master in Business Administration (MBA) | Deakin University |
| Bachelor of Electrical Engineering | University of New South Wales |
| Certificate IV Electrical Wiring | Kogarah TAFE |
| PMP Certification Training | Simplilearn |

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| Career Summary |  |  |
| Project Manager  Systems Assurance Engineer  Technical Manager  Project Manager  Project Manager  Project Manager  Project Engineer  Communications Engineer  Contracts Engineer | August 2017 – Dec 2018  April 2016 – July 2017  July 2014 – March 2016  Apr 2011 - July 2014  March 2006 - April 2011  Oct 2005 - Mar 2006 Oct 2002 - Sep 2005  Oct 2000 - Sep 2002  April 1997 - Oct 2000 | Sydney Metro NorthWest (Contract)  RCR Infrastructure (Permanent)  Transport NSW (Contract)  Endeavour Energy (Contract)  RailCorp (Contract)  Siemens Technologies (Contract)  SAM Technologies Pty Ltd (Permanent)  KRONE ADC Pty Ltd (Permanent)  ABB Transmission and Distribution (Permanent) |

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| August 2017 – November 2018  Project Manager  Sydney Metro NorthWest  April 2016 – July 2017  Systems Assurance Engineer  RCR Infrastructure  July 2014 – March 2016  Technical Manager  Transport for NSW  Power Supply Upgrade | **In this I am responsible for managing power supply upgrade of 1500V DC and signalling infrastructure delivered by Sydney Metro NorthWest for TfNSW readiness for Metro Integration implementation and future power demand running up to 20 trains per hour on North Shore Line ($32 million).**  **Achievements:**   * 1500V DC Feeders Upgrade Lindfield and St Leonards Substations * OHW upgrades and power studies implementation * Signalling upgrades between Waverton – Waitara (60 impedance bonds and 6 Insulation Joints) including civil works such as retaining walls, drainage relocations and cable route construction   **Responsibilities:**   * Contract of Management of Laing O’Rourke head managing contractor for Sydney Metro * Liaising with project’s sponsor Rail Planning Division TfNSW * Engagement with assets owner Sydney Trains for construction and commissioning of new infrastructure * Safety assurance reviews and approval * Project Management and reporting to various agencies on the project’s status   **In this role I was responsible for Systems and Safety Assurance for TF NDSW cluster projects in D&C of traction substations and HV feeders’ upgrade.**  **Achievements:**   * Chalmers Street DC Traction Substation ($35 million) * Granville Junction DC Traction Substation ($27 million) * 1500V DC Cables Upgrade – Strathfield, Hornsby, Granville, Gordon, Waverton and Chatswood North substations ($5 million) * Yennora Yard Signalling Upgrade (1.7 million)   **Responsibilities:**   * Set up Systems Assurance office in line with TfNSW processes * Safety assurance - design and construction interface management * System Assurance - documentation development for risk mitigation and safety controls verification * Engineering Assurance systems management * Type Approvals for new electrical equipment * Interface with RCR partners and TfNSW/Sydney Trains   **In this role I was responsible for design management of power supply upgrades and construction of new substations working on Novo Rail Alliance projects. Achievements:**   * Inter-Trip DC circuit breaker design integration and pilot implementation using fibre communications back up fibre-copper transceivers. LV Interface panel implementation and contract management * Successful commissioning of electrical and communications installations in Blacktown North, Penrith and Seven Hills Substations ($65 million) * Installation and commissioning of 33kV Feeder 7W3 Blacktown – Toongabbie ($7 million) * Granville Substation Concept Design review and tender assessment * 1500V DC cables upgrade design and tender for Westmead, Strathfield, Hornsby, Waverton, Granville, Chatswood substations   **Responsibilities included:**   * Managing new technology introduction in protection field for DC applications (safety critical protection relays UML-E DC Intertrip) * Managing civil, structural, architectural, signalling and electrical designs’ delivery * Providing project teams with technical support and guidance in a decision making * Multidisciplinary designs assurance and verification * Liaison with internal and external stakeholders to resolve technical issues * Technical design reviews and liaison with subject matter experts * Safety assurance and systems assurance reviews |
| Apr 2011 – July 2014  Project Manager  Endeavour Energy  Capital Programs | **In this role I was responsible for project management for Design/Construct and Construct Only projects within Capital Upgrade Program and Network Connections for bulk energy clients by connecting their assets to the network grid.**  The projects ranged from HV assets relocations and infrastructure upgrades to multimillion dollar Capital Program upgrades of 11kV-132kV underground and overhead assets carrying the works inside Transmission and Zone Substations and outside in public areas and roads.  **Achievements:**   * Replacement of gas and oil filled 33kV-66kV Feeders in Carlingford TS, Outer Harbour TS, Blacktown BSP and Homepride ZS ($7.3 million) * Detailed design and tender for 132kV oil filled Feeder upgrade Parramatta ZS – Camellia TS ($8.63 million) * Earthing upgrade program in ten Endeavour Energy Zone Substations * Springfield 132kV Capacitor Bank installation and commissioning ($4.3 million) * Tallawarra SS 132KV Circuit Breaker Upgrade using Point on Wave ABB protection relay (4.3 million) * 33-11kV feeders’ connections from bulk energy customers * Installation on 11kV Circuit Breaker in Bowral Zone Substation ($350K) * Installation of 33kV Circuit Breaker in Blacktown Substation for RailCorp bulk supply ($450K) * 33kV underground cable installation and commissioning in Anzac Village Substation for Department of Defence ($113.5K) * 33kV aerial Feeder connection for Visy Paper bulk supply ($200K) * 33kV aerial Feeder connection in Outer Harbour Transmission Substation for Cement Australia * 33kV Transmission Line earthing upgrade in Helensburgh Substation * 33kV Feeder relocation in Bellambi Transmission substation * 33kV aerial Feeder to HMAS Albatros * Springfield Transmission Substation upgrade ($4.5 million)   **Responsibilities included:**   * Reviewing electrical and civil project briefs * Design development and technical assessment * Planning and stakeholder negotiation * Engaging internal labour resources and external contractors * Tendering and procurement * Contract administration and contractors’ supervision * Commissioning and hand over of HV infrastructure * Negotiations with external clients and authorities |
| March 2006 – April 2011  Project Manager  RailCorp | **In these roles I was responsible for managing the following projects:**   1. **Major Works - Southern Sydney Freight Line between RailCorp and ARTC (SSFL) $50 million.**   **Responsibilities included:**   * Management of RailCorp 33kV assets relocations and 1500V DC OHW assets relocations * D&C contract delivery for Liverpool Section Hut * Signalling and Communications assets relocations to enable SSFL construction in rail corridor * Liaising with third parties for external assets relocations such as electricity, gas, water and telecommunications. * Liaising with internal and external stakeholders on design and construction matters and obtaining approvals to carry out construction works * Carrying out design reviews, site audits, commissioning and hand over of electrical, signalling and communications assets * Overseeing the construction works and development of overall construction program, planning of discrete stages of construction, co-ordination of multiple construction activities, work parties and arranging of network outages to carry out the works  1. **Control and Communications Division - managing medium to large size RailCorp Communications and SCADA upgrades projects:**  * Blaxland Substation SCADA Refurbishment * 144 core Single Mode Fibre Central – McDonaldtown * Strathfield Signal Box 11kV/33kV SCADA upgrade   **Responsibilities included:**   * Complete project management from the project initiation to assets handover stages * Design reviews and implementation * Planning and procurement * Engaging internal and external resources to carry the construction * Commissioning of the assets in live substations and signalling hubs, SCADA and communications upgrades   Managing the identification and rectification of post commissioning defects and assets hand over to regional owners   1. **Design Delivery - managing multi-disciplined design packages for 33 infrastructure upgrades:**   **Responsibilities included:**   * Managing designs delivery for communications and signalling upgrades including LV and HV * Distribution and substations designs up to 66kV, 1500V DC Overhead wiring designs, Fire Life and Safety * Liaison with senior internal design staff and external design consultants’ principal representatives * Preparing design briefs and specifications * Engaging external design consultants to develop complete design packages * Providing construction support and issues resolution framework during construction stage   Attending multiple site visits and inspections to ensure accurate design implementation and verification |
| October 2005 – March 2006  Project Manager  Siemens Technologies Pty Ltd  Building Automation Division | **In this role, I was managing projects for Security, Automation and Communications. These projects involved implementation of distributed fibre optic and copper communications cabling systems and building automation systems.**  **Achievements:**  Commissioning of data communications, security systems and building automation systems for Deutshe Bank, AMWU, Lend Lease, Redox Chemicals and ACTEW AGL.  **Responsibilities included**:   * Preparation of contractual documents * Preparation of technical specifications and design drawings * Engagement of external contractors and contracts management * Budget management and program implementation |
| October 2002 – September 2005  Project Engineer  SAM Technologies Pty Ltd  Schmidt & Muller Division | **In this role, I was involved in managing projects for Security, Industrial Automation and Communications. These projects involved implementation of distributed fibre optic and copper communications cabling systems, sophisticated industrial automation systems and proprietary conveyor automation systems.**  **Major projects undertaken**   * Warragamba Dam Crest Crane upgrade * Stanhope Gardens, Westleigh, Hunterford Estate TV distribution systems * Blowering Dam personnel winch communications system * Centre Point Tower inspection winch * Melbourne Aviabridge * Kurri Kurri and Tomago Aluminium – anode conveyor systems upgrade   **Responsibilities included:**   * Design development * Engagement of external contractors to carry out the installation * Preparation of technical documentation, specifications and design drawings * Supervision of internal staff and contractors * Liaising with customers and external stakeholders * Planning and procurement * Budget management and costs control * Commissioning of industrial installations |
| October 2000 – September 2002  Communications Engineer  KRONE ADC Pty Ltd | **In this role I was designing data communications products and commissioned numerous customer installations, working in Asia Pacific R&D laboratory. I was testing structured copper and optical fibre products and complete systems.**  **Responsibilities included**:   * Certification of the products and systems according to Australian and International standards * Developing and utilising sophisticated test methods and proprietary equipment specifically developed by KRONE ADC to test the integrity and performance of structured cabling systems * Working with a variety of complex testing equipment for RF measurements * Customer Training and Presentations |
| April 1997 – October 2000  Contracts Engineer  ABB Transmission & Distribution AUTIL | **In this role I was responsible for the design of MNS3.0 ABB High Voltage electrical switchgear systems up to 66kV using proprietary ABB design and computer aided system PRODAT.**  **I was working under senior specialist’s guidance preparing factory assembly drawings and working on the production line providing support to commission HV switchgear systems.**  **Responsibilities included:**   * Small to medium size project management * Design of MNS3.0 ABB electrical switchgear systems * Preparing factory assembly shop drawings * Production line support to commission switchgear systems * Tender preparation for small projects * Technical support to clients and sales engineers   I was responsible for maintenance of engineering and manufacturing database maintenance and design drawings registration. |

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| Licenses | White Card CGI00475733SEQ1  Pegasus Card 854736  RISI RRN0010094846-100  Electrical Contractor 140787C  Qualified Supervisor Electrician 23650S  Driver’s License Class C 11524856 |
| Memberships | Engineers Australia Electrical ITEE 968433  IEEE 90570286 |

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| Software and Tools | Microsoft Office 2003/2007/2010 (Word, Excel, PowerPoint, Outlook, Access, SharePoint, Publisher), Microsoft Project, Lotus Notes, Visio, Adobe CS (Photoshop, Illustrator), Primavera, AutoCAD, Mincom Ellipse, Cognos. |

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| References | Available upon request. |