





Benjamin PARRY

Principal Engineer (RPEQ, CPEng, NER, MIEAust)

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 1/31 First Avenue, Caloundra 4551, QLD
 Minimum 2 weeks notice

Summary Statement

Experienced civil engineer specializing in strategic asset management of major infrastructure portfolios. Proven track record delivering risk-based lifecycle planning, condition assessment programs, and data-driven reinvestment strategies across bridge networks, pavements and linear assets valued at \$2.5B+. Combines deep technical engineering expertise with analytical capability to optimize asset performance, reliability and cost-efficiency. Committed to delivering outcomes that enhance infrastructure resilience and long-term sustainability.

PROFESSIONAL CAREER

Present May 2025	<p>Principal Engineer (Investment Planning), TRANSPORT AND MAIN ROADS, North Coast Region <i>State Roads Authority</i></p> <p>INVESTMENT PLANNING</p> <ul style="list-style-type: none">➤ Led early-stage planning of major transport infrastructure projects, coordinating multidisciplinary specialists and managing consultants to deliver project development aligned with government frameworks (ATAP, OnQ, PAF).➤ Directed procurement and contract management of technical services, ensuring probity, value-for-money and compliance with governance requirements.➤ Provided strategic advice to senior executives on development progress, risks and stakeholder engagement to support investment decision-making. <div><div>Project Planning</div><div>Stakeholder Engagement</div><div>Procurement</div><div>Contract Management</div><div>Governance</div></div>
May 2025 December 2023	<p>Senior Engineer (Civil), TRANSPORT AND MAIN ROADS, North Coast Region <i>State Roads Authority</i></p> <p>MAINTENANCE, ASSETS & TRAFFIC ENGINEERING TEAM</p> <ul style="list-style-type: none">➤ Led strategic asset management for regional portfolio of 1,000+ bridges, major culverts and fabricated steel traffic structures valued at \$2.5 billion, balancing asset integrity, safety, lifecycle costs and network reliability.➤ Developed asset performance analysis frameworks integrating structural condition data, risk profiles and deterioration modeling to inform \$5 million annual maintenance and capital investment programs.➤ Directed procurement, contract administration and delivery of structural remediation projects, managing consultants and contractors to ensure quality, compliance and value-for-money outcomes within budget and schedule.➤ Led technical reviews of inspection data and condition assessments, applying engineering judgment to prioritize interventions, optimize resource allocation and maintain network performance.➤ Managed heavy vehicle access approvals (Class 1 & 2) and structure management plans, conducting risk assessments that balanced asset condition, safety requirements and freight industry needs.➤ Coordinated multidisciplinary specialists (structural, geotechnical, environmental) and engaged with Indigenous partners to address cultural heritage and native title considerations in asset remediation projects.➤ Active member of TMR's statewide Structures Maintenance Program Leadership Team, contributing to asset management strategy, prioritization frameworks and governance of bridge and culvert programs.➤ Applied asset management standards and frameworks (AS5130, TMR Technical Standards) to ensure continuous improvement and compliance across portfolio management activities. <p>Higher duty roles (2024-2025):</p> <ul style="list-style-type: none">➤ Assets (Apr 2025): Led civil structures asset team, overseeing staff performance, strategic asset planning, stakeholder engagement and cross-business coordination of portfolio management activities.➤ Design – Technical Services (May 2024): Reviewed and approved technical designs for compliance with TMR standards, assessing structural adequacy, safety and operational requirements. <div><div>Asset Management</div><div>Lifecycle Planning</div><div>Condition Assessment</div><div>Risk Management</div><div>Deterioration Modelling</div><div>Program Management</div><div>Procurement</div><div>Contract Administration</div><div>Stakeholder Engagement</div><div>Civil Structures</div></div>

November 2023
June 2021

Senior Engineer (Civil), RECOR, Noosa

Civil/Structural Engineers & Project Managers.

CIVIL ENGINEERING TEAM

- Established and led the civil engineering discipline within the organisation, providing RPEQ supervision and mentoring for junior engineers and designers.
- Managed multidisciplinary projects from concept to delivery, overseeing contracts, financial control, regulatory approvals, and stakeholder engagement.
- Directed multidisciplinary sub-consultants (surveyors, transport modellers, geotechnical, environmental, hydraulic, electrical) to integrate specialist inputs and align outcomes with planning approvals and delivery requirements.
- Coordinated with local councils, government agencies and contractors to secure approvals, manage community expectations, and ensure projects met environmental and network requirements.
- Developed and implemented ISO-certified quality, safety and environmental management systems, embedding governance rigour across operations.
- Delivered stormwater, road, and earthworks infrastructure design and construction, ensuring compliance with technical and regulatory standards.
- Prepared clear technical reports, documentation and submissions to support approvals and stakeholder decision-making.

Civil Engineering Urban Development Leadership Project Governance Stakeholder Engagement Design & Modelling
Project Management

June 2021
October 2020

Project Management Engineer, PAVEMENT MANAGEMENT SERVICES, Sunshine Coast

Specialist engineers in pavement solutions.

NETWORK PROJECTS TEAM

- Managed network-level pavement condition assessment and asset management projects for local and state government clients, delivering on scope, budget and quality requirements.
- Developed pavement deterioration models and capital works programs, integrating condition data, lifecycle analysis and budget constraints to optimize renewal timing and maximize asset value.
- Provided specialist technical advice on pavement performance, condition assessment methodologies and asset management frameworks to support value-for-money infrastructure investment decisions.
- Led stakeholder engagement with government agencies, consultants and contractors to align project requirements, manage expectations and deliver collaborative outcomes.
- Managed project quality plans, financial reporting and contract administration, ensuring compliance with specifications and client standards.

Asset Management Project Management Deterioration Modelling Condition Assessment Pavement Networks
Technical Advisory Stakeholder Engagement

October 2020
July 2018

Information Analyst, UNIVERSITY OF THE SUNSHINE COAST, Sunshine Coast

Australian University

STRATEGIC INFORMATION AND ANALYSIS TEAM

- Led development of strategic forecasting models and predictive analytics frameworks using R and Python, supporting executive decision-making and government funding submissions.
- Transformed complex datasets into actionable insights through statistical analysis, data visualization and business intelligence dashboards, enabling evidence-based resource allocation and risk management.
- Engaged with senior stakeholders across departments to define requirements, validate analytical outputs and align performance reporting with organizational objectives.
- Built automated data pipelines and reporting tools to improve data quality, reduce manual processing and enhance decision-making capability across the institution.

Data Analytics Predictive Modelling Statistical Analysis Business Intelligence Performance Reporting R Python
Stakeholder Engagement

July 2018 July 2016	Technical Officer, NOOSA COUNCIL, Noosa <i>Local Council for the Noosa Shire</i> ASSET MANAGEMENT TEAM <ul style="list-style-type: none"> ➤ Led strategic asset management for council road and stormwater networks, coordinating operational teams, contractors and senior management to deliver risk-based inspection and renewal programs. ➤ Managed pavement management system operations including deterioration modeling, condition analysis and development of 5-year capital works program, integrating technical data with budget constraints to optimize intervention strategies. ➤ Developed spatial risk-based model for stormwater network management, integrating environmental factors, structural condition, land use and preliminary inspection data to prioritize inspection campaigns and mitigate asset failure risks. ➤ Directed procurement processes including tender preparation, evaluation and contract administration, ensuring value-for-money outcomes and effective contractor performance management. ➤ Led cross-departmental change management to implement asset management frameworks and information standards, securing stakeholder buy-in and embedding strategic asset practices across the organization. ➤ Coordinated disaster management information systems and NDRRA funding processes, ensuring compliance with legislative requirements and accurate capture of asset damage data. <div> Asset Management Risk Modelling Deterioration Modelling Network Optimization Procurement Contract Management Stakeholder Engagement Change Management </div>
March 2016 October 2012	Project Manager (Asset Management), VINCI SA- SOLETANCHE-FREYSSINET, Paris, France <i>Global construction company with expertise in specialised building, civil, hydraulic, and electrical engineering</i> ASSET SOLUTIONS TEAM <ul style="list-style-type: none"> ➤ Led international asset management projects across Europe, Middle East and North America, delivering strategic asset management solutions for government agencies and concession operators managing major bridge, tunnel, highway and water infrastructure. ➤ Developed comprehensive inspection and maintenance plans, asset management frameworks and lifecycle strategies for signature infrastructure, integrating condition assessment, risk analysis and performance optimization. ➤ Managed structural health monitoring programs including specification and procurement of instrumentation systems, data analysis and reporting to inform long-term asset strategies and intervention planning. ➤ Coordinated multidisciplinary engineering teams and subcontractors across complex international projects, managing scope, schedule, cost and quality to deliver client outcomes. ➤ Delivered technical training, workshops and presentations to client asset management teams, embedding new processes, systems and continuous improvement practices. ➤ Applied project management frameworks (PMBOK, PRINCE2, Agile) to deliver structured risk, cost and schedule management across diverse infrastructure asset portfolios. ➤ Winner, 2015 Vinci Innovation Prize for International Dissemination for development of mobile asset information system enabling field staff to access real-time asset data and work instructions. <div> Asset Management Project Management Lifecycle Planning Structural Monitoring Condition Assessment International Projects Contract Management Technical Leadership </div>
October 2012 March 2010	Civil Engineer, NEWTON DENNY CHAPELLE, Lismore <i>Civil engineering consultancy for urban development projects</i> CIVIL ENGINEERING TEAM <ul style="list-style-type: none"> ➤ Delivered civil engineering design and technical reporting for urban development projects, ensuring compliance with planning requirements and engineering standards. ➤ Coordinated with consultants, contractors and councils to secure regulatory approvals and deliver infrastructure projects from concept through construction. <div> Civil Design Project Delivery Regulatory Compliance Stakeholder Coordination </div>

EDUCATION

2016-2018	Graduate Diploma in Data Science (Accelerated), Monash University
2009	Exchange to L'Institut National Polytechnique de Grenoble , France, Final project in the Laboratoire des Ecoulements Géophysiques et Industriels (LEGI).
2004-2009	Bachelor of Engineering (Civil)/Bachelor of Arts (Spanish, French) - first class honours, University of Queensland , St Lucia.

SKILLS

Asset Management & Lifecycle Planning

Strategic asset management of major infrastructure portfolios including bridges, culverts, pavements and linear networks valued at \$2.5B+. Expertise in condition assessment methodologies, deterioration modeling, risk-based prioritization and lifecycle optimization. Experience developing asset performance frameworks, reinvestment strategies and capital work programs that balance reliability, cost and network resilience. Applied knowledge of asset management standards (AS5130, ISO55000 framework).

Data Analytics & Performance Optimization

Strong analytical capability combining engineering expertise with advanced data science skills (Graduate Diploma, Data Science). Proficient in statistical analysis, predictive modeling and data visualization using R, Python and SQL. Experienced in transforming complex asset condition data into actionable insights, optimizing intervention timing and supporting evidence-based investment decisions. Skilled in developing performance dashboards and business intelligence tools.

Project & Program Management

Proven track record delivering complex infrastructure projects using PMBOK, PRINCE2 and Agile frameworks. Expertise in procurement, contract administration, financial oversight, risk management and program delivery across transport, civil structures and asset portfolios. Experience managing multidisciplinary teams, consultants and contractors to achieve scope, cost, schedule and quality objectives.

Leadership & Governance

Experienced leader of engineering teams and multidisciplinary specialists, with proven capability in governance, probity and risk management. Implemented organisation-wide ISO 9001, 45001 and 14001 management systems. Active member of TMR's statewide Structures Maintenance Program Leadership Team, contributing to asset management strategy and portfolio governance.

Stakeholder Engagement

Skilled in engaging with diverse stakeholders including government agencies, Indigenous partners, contractors and community groups. Experienced in building trust, managing competing priorities and navigating sensitive issues with professionalism. Proven ability to coordinate across organizational boundaries to align asset management practices and secure stakeholder buy-in.

Technical Engineering Capability

Chartered Civil Engineer (RPEQ, CPEng, NER) with expertise in structural analysis, condition assessment and infrastructure design. Level 1 & 2 Bridge Inspection certified. Strong understanding of structural health monitoring, non-destructive testing, failure modes analysis and engineering standards (AS5100, AS5130, TMR Technical Standards). Experience applying whole-of-life cost assessments and value-for-money analysis to asset investment decisions.

Reporting & Communication

Experienced in preparing clear technical reports, asset management plans, business cases and executive briefings. Skilled in translating complex engineering and analytical findings into accessible recommendations for decision-makers. Proven ability to present at technical forums, chair stakeholder meetings and prepare submissions for regulators and funding bodies.

Software & Systems

- > **Asset Management & Enterprise Systems:** SAP ERP, Technology One, Oracle, Agile sets, AssetWise
- > **Data Analytics:** R, Python, SQL, Excel (advanced), Power BI, Tableau
- > **Engineering & CAD:** 12D, AutoCAD, TUFLOW, MUSIC, SpaceGASS, STRAND7
- > **GIS:** QGIS, ArcGIS, MapInfo
- > **Project Management:** MS Project, Primavera, 3PCM

LANGUAGES

English



French



Spanish



OTHER INTERESTS

- > Rock climbing, Running, Dog training
- > Travel, Languages, Meditation
- > Piano, Woodwork