



*CHAMPION ENGINEERS*

**Civil / Structural / Mechanical Engineering  
& Project Management**

# **C**APABILITY **S**TATEMENT

[www.championengineers.com.au](http://www.championengineers.com.au)

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## 1.0 INTRODUCTION

### 1.1 Contact details

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 ABN:- 51 101 635 527

### 1.2 Main Contacts

Name	Education and Training Work Experience
Naveen Sharma - Director Civil/Structural Engineer BSc (Hons) Civil Eng. ME (Civil Eng) RPEQ	+30 Years
Viraj Panditharatne Mechanical Engineer	+ 5 Years
Ghee Abraham Draftsman	+ 10 Years
Aaron Kirby Senior Draftsman/StruCAD	+ 20 Years
Adrian Rowsell Senior Draftsman	+ 30 Years
Janet Jansen Office Administration/Accounts	+30 Years

### 1.3 Year Established – August 2002

Champion Engineers Pty Ltd came into existence as a company in August 2002. It was formed as a result of two parties that were previously operating in the Mackay region deciding to effectively merge and create an entity that could provide enhanced capabilities and resources to our clients. Our company's aim is to provide a complete, cost effective service with attention to detail. The efficiency improvements result from a pooling of resources, thereby allowing improved delivery while maintaining a high quality of outputs. Cost-effectiveness is achieved by maintaining low overheads and competitive rates.



## 2.0 CAPABILITY INFORMATION

### 2.1 Civil / Structural / Mechanical Engineering Services

Champion Engineers (CE) is a consulting engineering firm that provides a design and project management service for engineering projects. CE has a strong focus on industrial structures and systems including heavy industrial design. Having said that, it is emphasised that work outside the standard industrial sector is undertaken by CE and has, either as a company or individually amongst the staff, successfully completed work in the commercial and residential buildings, civil works, public health (water and waste water, stormwater collection and disposal) and general municipal, road and rail transportation (roads and bridges) and general engineering sectors. This company can therefore offer broad experience in a wide variety of sectors. Collectively, CE offers over 60 years of technical experience in a wide range of disciplines and industries.

The disciplines in which Champion Engineers offers expertise include:

- Project management of single and multi-discipline projects
- Civil engineering
- Structural engineering
- Mechanical engineering
- Pipeline engineering (land based)

A significant proportion of our current and past workload has been in the industrial sector. The various industries that we have been involved in include:

- Lead, zinc, copper, silver and gold mining and processing
- Coal mining and processing
- Sugar milling and refining
- Power generation – hydro, thermal (coal) and geothermal
- Oil and Gas
- Petrochemicals
- Aluminium mining, smelting and refining

We reiterate that in addition to the industrial sector, we possess capability in a range of other sectors and have successfully completed a considerable amount of work for local authorities, builders, sporting clubs and developers.

Our capability is enhanced by the fact that we have a very thorough understanding of the disciplines within which we operate. The systems and procedures we have in place complement our technical strengths and ensure that we produce the best quality work and generate solutions that are appropriate and satisfy client requirements. These systems include computer hardware and software, quality assurance, project and cost control systems.

In addition to in-house technical resources, we maintain close contact with external mechanical engineering and materials handling expertise. We are able to call on assistance from these resources when the need arises.



## **2.2 Project Management**

Our technical staff has a sound understanding of project management and have worked in project management roles in the past. They have also had involvement in shutdown work and understand the importance and necessity of careful planning and scheduling of work for shutdowns to maximise efficiency. Consequently, we appreciate and understand the requirements of managing small to medium sized projects with the dollar value of these projects ranging up to several million dollars.

Over the last ten years we have project managed several projects completed using State and Federal Government funding. These projects have been mostly sport and recreation related. There was also an industrial project carried out for Queensland University of Technology undertaken at the Racecourse Sugar Mill in Mackay under a similar funding arrangement. This project included a bio-ethanol manufacturing test facility.

## **2.3 Software**

AutoCAD  
Advance Steel  
Infrastructure Design Suite  
StruCAD  
Spacegass  
Tekla  
Transoft Solutions-AutoTurn  
Plate and Sheet

## **2.4 Preferred Business**

Industrial Projects, Project Management of single and multi-disciplined Projects. Although we are a small practice we offer many years of experience in a wide variety of industries. Our small size means we are able to offer competitive rates. Our location in Mackay and the associated proximity to the various mine sites also means that we provide quick response to client requirements.

## **2.5 Our Firms approach**

Our aim is to support our Clients and endeavor to meet their goals as efficiently and cost effectively as possible. Our firm has the experience to fulfil roles successfully with professionalism, responsibility and integrity.



## 3.0 Track Record

### 3.1 Leading Projects Completed and Major Clients

Some of the projects we have successfully completed for various clients include the following:-

#### Industrial

- Design of Foundation for Jib Crane at Dalrymple Bay Coal Terminal.
- Inspection and Reporting – Ship Loader Luffing Ropes – Dalrymple Bay Coal Terminal
- Site Based Drafting Secondment – Maintenance Section – Dalrymple Bay Coal Terminal.
- Site Audit of Carparks – Dalrymple Bay Coal Terminal.
- Site Audit of Emergency Signs – Dalrymple Bay Coal Terminal.
- Certification of SL1 Telechute shuttle Safe Access Handrail – Dalrymple Bay Coal Terminal.
- Design and detailing of safety works and guarding for draglines on behalf of BMA Saraji. This role includes the quality assurance checking and review of fabrication works.
- Engineering design and project management of the roof structure replacement of the 1000T Bin at the Gregory Mine.
- Evaluation of the Rejects Handling System for German Creek Mine and recommendation of augmentation measures.
- Preparation of structural detail drawings for various developments on Hamilton Island.
- Detail design, project management and commissioning of a vacuum pressure impregnation system for United Goninan.
- Design and detailing of compressors, switchboards and various other items on the BMA dragline DRE22.
- Preparation of shop details for work relating to Shafts 1 and 2 at the Grasstree Coal Mine.
- Design and detailing of platforms for main gate conveyors for Kestrel Mine through Nepean Conveyors.
- Miscellaneous structural audits at German Creek Mine and BMA Gregory.
- Civil, Structural and Mechanical design and Project Management of the Bio-commodities Ethanol Pilot Plant at Racecourse Mill on behalf of Queensland University.
- Design and Project Management of Industrial Shed 1100m<sup>2</sup> in Bowen for Melco Engineering.
- Design and Project Management of Heavy Workshop shed with 1x 100t and 2 x 50t Electric Overhead Travelling Cranes for Melco Engineering in Paget.
- Design and Project Management of Mackay Cricket Association external facilities expansion (State Government Funding).
- Civil, structural, mechanical, Instrument and electrical design for a truck filling facility in Jumblebar, West Australia (BHP Iron Ore).
- Project Management of Club Building Expansion for Mackay Cricket Association.
- Design and detailing of the Breaker Station Rejects Retaining wall at German Creek.
- Certification, design and detailing of numerous platform, walkways and lifting equipment for a variety of clients including BMA Gregory Mine and BMA Saraji Mine.
- Establishment and maintenance of a drawing register system for CSR Distilleries, BMA Gregory Mine and BMA Saraji Mine.



## Building / Sporting Facilities

- Design and project management of 1150m2 Gymnastics building with open space for equipment, offices, changing rooms, catering/kitchen area. All disciplines designed by Champion Engineers. Client was Mackay Gymnastics Inc.;
- Design and project management of 1100m2 building complete with office area for Melco Engineering Pty Ltd and Clifford Group Developments;
- Design and project management of 1400m2 heavy bucket shop for Melco Engineering/Clifford Group Development complete with 1 x 100 tonne and 2 x 50 tonne overhead travelling cranes;
- Design and project management of 1700m2 machine shop in Paget with offices and amenities. Project undertaken on behalf of Clifford Group Developments;
- Design of 2400m2 of industrial buildings (2 tenancies) with tilt panel wall and two level offices. This work was undertaken on behalf of MBC Builders;
- Town planning and property reconfiguration for industrial lots in Paget;
- Design and project management of pilot plant for Queensland University of Technology in Mackay. This is a research facility which will study the manufacture of ethanol from renewable bio-commodities. Scope of work included the building and equipment. Two separate contracts completed, first contract included all civil and structural works and second contract included all equipment and piping;
- Two building extensions of the Harrup Park Country Club buildings in Mackay. First expansion was a design and construct and second was construct only;
- Design and project management of dressing rooms and associated facilities at Harrup Park Country Club;
- Design and project management of a sports field development with flood lighting for night games for Mackay Cricket Association Inc.;

The above list has been compiled in order to provide a sample of the kind of work we have been involved in. It is by no means an exhaustive list of current workload. The list is also not fully representative of the types of projects that we are able to undertake. We are able to provide details of other work we have been involved with, if required.

### 3.2 Delivery performance and reliability

We are well set with office procedures and equipment to allow us to produce work effectively and in a timely manner. We maintain cost control systems that allow us to determine project costs at any given time. This in turn gives us the ability to minimise the potential for cost overruns without prior warning and this ultimately, we believe, leads to a happier relationship with clients.

## 4.0 MANAGEMENT SYSTEMS

### 4.1 Insurances

- Professional Indemnity:- \$10,000,000 any one claim; \$20,000,000 in the aggregate
- Public Liability:- \$20,000,000
- Work Cover Queensland:- As per the Queensland Government requirements