



# ALIX McLEAN

## Senior Mechanical Engineer

BEng(Mech), BA(European Studies), MIEAust, NABERS Accredited Assessor, Green Star Accredited Professional

### Background

Boasting a dual degree in Bachelor of Engineering and Arts, Alix has developed extensive experience in mechanical engineering design since graduating from the University of Queensland in 2001.

Alix has developed specialist skills in the design of heating, ventilation, air-conditioning and lift services for a range of building types. With proficient energy efficiency analysis skills including Section J (NCC), Green Star and A3598 Energy Audits, Alix is an authority on energy efficiency and lift services.

With a passion for sustainable and innovative engineering and design, Alix has compiled an impressive list of successful projects in a range of sectors over her professional engineer career spanning some 15 years.

### Project Experience

#### Retail/Commercial

- IGA Rockhampton, Toowoomba, Northlakes
- Coles Taringa
- Russell Street, South Brisbane Office Building
- Mt Gravatt Office Building Extension
- Fedex, Sydney
- Various Office HVAC audits for Queensland Department of Communities, Child Safety and Disability Services
- Alice Springs Grace Warehouse
- Berrimah Defence Building Refurbishment
- Emerald Tenancy Refurbishment & Fitout
- Baringa Tavern, Bells Creek
- Stockland Baringa Shopping Centre
- Stockland Burleigh Heads - Dining Precinct
- Novotel, South Brisbane

#### Energy Efficiency Analysis and Audits

- Whitsundays Regional Council Climate Change Mitigation
- ANU College of Law Thermal and Energy Audit
- Queensland Deaf Services Energy Audit
- City of Darwin Energy Audits
- Metronode Data Centres NABERS
- Wynnum State School and Moreton Bay Environmental Education Centre
- Ballina Shire Council Administration Energy & HVAC Audit
- Pacific Fair Centre Peak Demand Reduction
- Churches of Christ ESD Strategy
- Marrakai Apartments Energy Audit
- Brisbane Girls Grammar School Year 7 Resource Building JV3 Analysis
- Macedon Healthcare JV3 Analysis
- Miller Street Shading Analysis
- G60 & G80 Apartments, Gladstone Residential Building Thermal Assessments
- Various Harvey Norman Section J upgrade analyses
- Kmart Port Macquarie JV3 Analysis

#### Educational

- UNSW Morvern Brown Building refurbishment
- UQ Gatton JK Murray Library
- Mackay SHS
- Northside Christian College
- Bedford College, Baulkham Hills
- Nambour TAFE
- USQ Toowoomba Master Planning
- Mater Dei Catholic School Library & Multipurpose Hall
- St Ignatius School Toowong
- St Patrick's School, Gympie
- QUT Condition Audits
- Various catholic and state school multipurpose halls and GLAs
- Gold Coast Institute of TAFE, Coomera
- Hills Grammar Early Education Centre
- Proserpine State High School
- Heatley State High School

#### Residential

- Currumundi Apartments, Sunshine Coast
- Harmony Apartments, Cockburn
- Jazz Apartments, Townsville
- Cordelia Street, Brisbane
- Dugald River Accommodation Village
- Sea Pearl Residential
- Tom Fisher House Homeless Shelter, Perth
- Oxford Street, Residential
- Baxter Street, residential

#### Service Station

- Freedom Service Station, Sheridan Street Cairns
- Caltex Service Station, Birtinya
- Freedom Service Station, Mareeba
- BP Service Station, Paget

**Institution**

- Townsville Marine Tourism Precinct – Ferry Terminal
- Amberley Industrial Park
- Church of Latter Day Saints – Werribee, Darwin and Burpengary
- Warringah Aquatic Centre
- Chester Hill Library and Knowledge Centre
- Moreton Bay Regional Council HVAC Upgrade
- Souness Park Sports Facilities Refurbishment
- Air Services Australia National Feasibility Studies
- Surfers Paradise Police Station
- Tudor Park Community Centre
- INPEX Ichthys Project On-shore LNG facility
- Bananashire Council Administration Complex & Art Gallery
- Hinkler Hall of Aviation
- Murilla Multipurpose Centre
- AFL Queensland, Yeronga
- Logan Metro Sports Park Development
- Toowoomba Sports Ground Refurbishment
- Proserpine Entertainment Centre
- Whitsunday Sports Park Redevelopment

**Health/Aged Care**

- Browns Plains Community Health Care Centre
- John Hunter Children's Hospital PICU
- Narrabri Hospital
- Prince Charles Hospital Paediatric
- Caboolture Hospital Emergency Department
- ATSIChS Community Health Services Building
- Tweed Health GP Super Clinic
- Benhome Aged Care
- Christopherous House, Sydney
- Duhig Village
- Churches of Christ, Bribie Island
- Blue Care Carina
- Braemar Aged Care
- Symes Grove Aged Care
- Killarney Court Aged Care Facility
- Regis Aged Care, Lutwyche
- QAS Brief and Specification - Engineering Review