

Aidon Browning

ME (Fire Safety), BE (Hons), NER, CPEng

Director

CARBON | 
FIRE ENGINEERING



CONTACT

0497 265 715

aidon@carbonfe.com

LICENSES

Chartered Professional Engineer (CPEng)

National Engineers Register (NER)

Registered Professional Engineer QLD (RPEQ)

Registered Building Practitioner VIC

EDUCATION

Masters of Engineering (Fire Safety)

Bachelor of Engineering (Honours)

PROFESSIONAL AFFILIATIONS

Member Institution of Engineers Australia

Society of Fire Safety, Engineers Australia

PROFESSIONAL EXPERIENCE

Carbon Fire Engineering, 2023–Present

Holmes, 2016–2023

QFES, 2014–2018

Aidon is a Chartered Professional Engineer and Registered Professional Engineer in Queensland, holding additional registration as a Registered Building Practitioner in Victoria. Graduating with Honours from the University of Queensland, he earned a Master's degree in Civil and Fire Safety Engineering.

During his academic pursuits Aidon's research provided vital insights in developing a framework to understand the self-extinction of mass timber elements in compartment fires. His research involvements extend to diverse areas, including the survivability of pacemakers in post-flashover fires, the study of fuel requirements for the thermal degradation of bodies by means of open pyre cremation and the study of fire fighter protective clothing.

In the capacity of a visiting Research Scholar at the ARC Future Timber Hub from 2019 to 2020, Aidon contributed to research endeavors aimed at comprehending the impact of fire on mass timber structures. Aidon has emerged as a distinguished figure within the construction industry, showcasing expertise in evaluating fire effects on timber, steel and concrete structures and formulating fire safety strategies for complex and novel building designs. Aidon also serves as the Secretary for the Engineers Australia, Society of Fire Safety, Queensland Chapter, and remains an active contributor to various practice guides in the construction sector.

Co-founding Carbon Fire Engineering subsequent to his position as a Senior Fire Engineer at Holmes, Aidon's professional journey has included the delivery of fire safety strategies for complex and iconic projects across Queensland, New South Wales, ACT, and Western Australia. His extensive expertise extends across diverse project sectors, encompassing commercial and retail, education, industrial, residential and infrastructure.

Prior to working as a fire engineer Aidon was employed as an Auxiliary Firefighter with the Queensland Fire and Emergency Service (QFES). The knowledge acquired during his four-year tenure at QFES enables him to integrate fire safety engineering strategies that are practical and able to align with standard fire brigade intervention procedures.

Throughout his career, Aidon has developed a deep understanding of fire engineering principles and practices, leveraging academic qualifications and practical experience to deliver best-for project solutions for his clients. His specialist expertise centres in developing innovative and cost-effective solutions targeted at the specific needs of each project. Through his desire to showcase his commitment to advancing the safety of modern building design Aidon works closely with all project collaborators.

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PUBLICATIONS

Wood Solutions Legacy Training tool, Property Council of Australia, 2022.

Experimental study on the fuel requirements for the thermal degradation of bodies by means of open pyre cremation, Fire Safety Journal, 2018

The Effect of Fuel Load Nature on the Self-Extinction of Mass Timber, Pacific Timber Engineering Conference, 2019

The Effect of Fuel Load Nature on the Self-Extinction of Mass Timber, University of Queensland, Masters Thesis, 2018.

PROJECT EXPERIENCE

Education

University of Sunshine Coast, Moreton Bay Campus, Stage 2 // Petrie, QLD
JCU, Technology Innovation Complex // Townsville, QLD
Barker College, Maths and Student Hub // Hornsby, NSW
Macquarie University Ainsworth Building // Macquarie Park, NSW
Macquarie University Michael Kirby Building // Macquarie Park, NSW
Griffith University Building N34 Upgrade // Nathan, QLD
Griffith University Building N55 Upgrade // Nathan, QLD
Griffith University Building N44 Upgrade // Nathan, QLD
Griffith University Building N53 Exam Room Upgrade // Nathan, QLD
Griffith University Sitewide Services Upgrade // Nathan, QLD
QUT Z9 Block Upgrade // Kelvin Grove, QLD
Ohana College // Meadowbrook, QLD
Riverside Christian College, Hall Upgrade // Maryborough, QLD
St James Lutheran College Hall Project // Hervey Bay, QLD
University of Newcastle, Central Coast // Gosford, NSW
University of Queensland Remote Sites Cladding Project // QLD
University of Queensland, Hartley Teakle Upgrade // St Lucia, QLD
Alexandria Park Community School // Alexandria, NSW
Wee Waa High School // Wee Waa, NSW
Riverside Christian College, Junior School // Maryborough, QLD

Retail, Bar & Entertainment

Birdees Redevelopment // Fortitude Valley, QLD
Jubilee Hotel // Fortitude Valley, QLD
Rooty Hill RSL // Rooty Hill, NSW
Jubilee Place Rooftop Bar // Fortitude Valley, QLD
Spring House, 46 Sydenham Road // Marrickville, NSW
Queens Wharf Visitor Centre // Brisbane, QLD

Commercial

Jubilee Place // Fortitude Valley, QLD
Westralia Square Tower 2 // Perth, WA
42 Honeysuckle Drive // Newcastle, NSW
360-362 Kent Street // Sydney, NSW
8 Maroochydore Road // Maroochydore, QLD
23 National Circuit // Barton, ACT
137-153 Crown Street // Darlinghurst, NSW
155 Wickham Terrace Fit-out // Spring Hill, QLD
44 Martin Place // Sydney, NSW
307 Pitt Street Upgrade // Sydney, QLD

Childcare

Mini Miracle, 62 Thynne Street // Bruce, ACT

Infrastructure

Cross River Rail Structural Fire Engineering // Brisbane, QLD
Telstra Monopole Structural Fire Assessment // Australia

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PROJECT EXPERIENCE CONT.

Residential

Monterey // Kangaroo Point, QLD
Habitat on Juers // Kingston, QLD
2-6 Tallow Street Demonstration Project // Inala, QLD
16 College Avenue // Shellharbour, NSW
Twenty 95 // Manly, NSW
10-14 Carinya Street // Blacktown, NSW
117 Bowden Street // Meadowbank, NSW
9 Courage Street // Sippy Downs, QLD
25-29 Longueville Road // Lane Cove, NSW
Warwick Tower Upgrade // Redcliffe, QLD
4-8 Patterson Street // Double Bay, NSW
6A Addison Street // Shellharbour, NSW
55 Kalimna Drive // Mornington, VIC
5/92 Birriga Road // Bellevue Hill, NSW
356 Military Road // Cremorne, QLD
5 Uhrig Road // Lidcombe, NSW
Kahala Towers Post Fire Damage Assessment // Clayfield, QLD

Hotel

Little National Hotel // Sydney, NSW
42 Honeysuckle Drive // Newcastle, NSW
The Ribbon // Sydney, NSW

Industrial

146 Potassium Street // Narangba, QLD
440 Sherbrooke Road // Willawong, QLD
134 Bunya Road // Bunya, QLD
Caboolture Sawmill: CDK Kiln // Caboolture, QLD
43 Curzon Street Upgrade // Tennyson, QLD
11 Ferndell Street // Granville, NSW