

# Yin Gao (Vincy) – Curriculum Vitae



## SENIOR ENGINEER

BEng (Mechanical), MEng (Reliability), MIEAust, RBP

## HIGHLIGHTS



Yin Gao (Vincy) has over 9 years' experience as a mechanical engineer in construction industry and manufacturing industry, including 7 years continuous experience in building services consulting in Melbourne. Vincy has been dedicated to a diverse range of projects, including energy, government, educational, religious, commercial, residential and recreational buildings. Her exceptional problem solving skills and lateral thinking have exalted her out of ordinary. Vincy's current role includes project management of multidisciplinary projects, concept design, detailed design, construction administration and contract administration.

Vincy's primary professional interest lies in the following areas:

- Promoting sustainability in the building environment
- Diminishing energy use and minimizing GHG emission
- Facilitating efficient work environment and enabling staff
- Improving system reliability, maintainability and accessibility
- Enabling building automation and easy use of services

## PROFESSIONAL EXPERIENCE

Apr 2013 – to date Braird Engineers (Melbourne)  
Senior Engineer

Vincy joined Braird Engineers in 2013 and continues to provide cost effective and environmentally sensible design, deliver quality projects and further enhance the client-oriented approach.

May 2007 – Mar 2013 AGB Group (Melbourne)  
Senior Mechanical Engineer

Soon after returning to Australia, Vincy was engaged by a national building services engineering consulting firm, AGB, to work on a variety of Melbourne local buildings. Involved in all aspects of project delivery, Vincy had been the main contributor of design and documentation of services including HVAC, lab engineering, cold store, fume extraction, smoke control, lift, fire protection, general plumbing, rain water system

Dec 2005 – Jan 2007 C&D International Co., Ltd (China)  
HVAC/R Solution Engineer

Vincy ventured into manufacturing sector of China and joined a local HVAC/R manufacturer which provides solutions and products to international market. Taking on a diversified role, Vincy gained wide knowledge of product design and development, manufacturing process and technique, material processing technique, and broadened experience in concept design of large residential HVAC systems, commercial HVAC and refrigeration systems

Aug 2004 – Oct 2005 China Three Gorges Project Corporation (China)  
Junior HVAC Engineer

After completion of a Master's degree in engineering from The University of Queensland, Vincy returned to hometown and joined one of the largest EPCM, China Three Gorges Project Corporation (CTGPC), and worked within a team of engineers approving engineering designs and changes of the world famous Three Gorges Project (TGP) and also providing building services designs to highrise residential buildings

## MEMBERSHIP OF PROFESSIONAL ORGANISATIONS



## EDUCATION

Master of Engineering



Bachelor of Engineering



## FEATURE PROJECTS



### RMIT University

Various locations

Building services design and analysis including mechanical, hydraulic and fire for refurbishment and upgrade of various venues to comply with stringent standards, improve IAQ, reduce energy use and adapt to increased demand



### Monash University

Various locations

Detailed design and document for ongoing facilities upgrade involving HVAC, fire and plumbing. Recent major projects include Health Precinct in Clayton Campus and various projects in parallel to Campus Upgrade in Caulfield



### University of Melbourne

Various locations

Mechanical, hydraulic and fire protection services design and documentation for various projects including lab environment, offices, computer labs, collaborative teaching spaces and workshops



### Heathcote Health

Heathcote

Engaged to liaise with authorities and investigate existing site services involving power, water, sewerage, drainage, gas, communication cables, to initiate master planning and refurbishment of existing hospital facilities



### Emerald Hill Library

South Melbourne

ESD studies, building services design and documentation for library and heritage centre extension and redevelopment. Design includes energy efficient HVAC system, solar powered exhaust fans, solar hot water system and rain water system



### Broadmeadows Community Hub

Broadmeadows

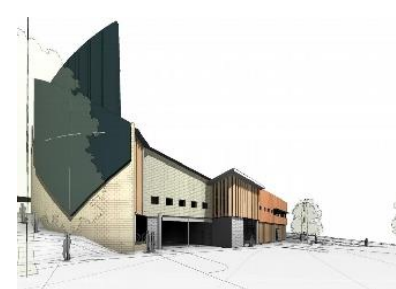
Developed mechanical, hydraulic and fire protection services design and documentation for the new centre including offices, maternity consulting rooms, children's area, multi-purpose rooms, commercial kitchen, cold store and lift



### Highlands Retirement Village

Craigieburn

Detailed design and documentation of mechanical, hydraulic and fire protection services for the new centre including lounge, kiosk, gym, canteen, cinema, dance floor, hair salon, library, billiards, medical consulting suites; dedicated design for indoor swimming pool



### Salvation Army Church

Mooroolbark

Led a team to provide full services design featuring passive cooling by combination of natural ventilation, mechanical ventilation, night purge, thermal chimney with controls and sensing, and passive heating by solar panels and mechanical ventilation. Assisted third party ESD studies and thermal modelling



### Three Gorges Dam

Yichang, China

World's largest hydropower dam standing 185m high 2.3km wide Assisted in reviewing HVAC systems design and drawings for underwater control centre which controls 32 main power generators producing 85TWh power per year