



## Curriculum Vitae

### Dr Gueen Zheng

PhD, CEng (Structures, UK)

FIES

Chief Technologist

Email: [gueen.zheng@ut.sg](mailto:gueen.zheng@ut.sg),

Website: [www.ut.sg](http://www.ut.sg)

**Chartered Engineer  
(Structures), Engineering  
Council, UK**

**Professional Member,  
Structure Engineering,  
Institute of Engineers UK**

**Fellow, Institute of  
Engineers Singapore**

**Chartered Engineer,  
Institute of Engineers  
Singapore**

**English, Mandarin**

### Educations

PhD in Solid Mechanics and Structural Analysis

M.Eng in Applied Mechanics

B. Eng. in Applied Mechanics

### Summary

Dr. Gueen has more than 30 years of industrial and research experience in applied science and engineering solution developments including general structures, civil engineering, product development, design for vibration environment, accident/fire investigation, recommendation on improvement, product upgrading, quality improvement, structure evaluation, fatigue life management, research in application of new materials, demonstration of structure behaviour, technical lecturing and training, accumulated through university lecturing, industry practices and collaborations.

### Professional Experience

As principal investigator, Dr Gueen successfully completed more than 100 relevant projects including

Design of high rise buildings

Design and analysis of foundations

Analysis of effect of earthquake on building structures

Design and analysis of building structures with wind load

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## **Professional Experience**

Forensic investigation on fatal construction accident  
Investigation on damages of manhole frame set  
Design and analyses of lifting devices  
Investigation on accidents of mobile cranes  
Review and check of cable car system design  
Forensic investigation on car fire and explosion  
Design to vibration environment requirements  
Investigation on accidents of tower cranes  
Evaluation of fatigue of structures  
Development of lighter weight products  
Assessment of aircraft structures  
Review and check of aircraft run way design  
Design and analysis of aero-structures

## **Industrial Sectors**

Civil and Structural Engineering  
Aerospace  
Marine  
Construction  
Transportation

## **Expertise Areas**

Structural analysis and testing  
Structural strength evaluation  
Vibration analysis  
Accident/fire investigation  
Fatigue Assessment and Evaluation  
Light Weight Material Applications  
Product design and development

## **Publications**

As lead author, Dr Guen published a number of technical papers in referred international journals and conferences.

>500 classified technical reports