



Curriculum Vitae

Dr Gueen Zheng

PhD, CEng (Structures, UK)

FIES

Chief Technologist

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Website: 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 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

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
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