


<b>NAME:</b>	<b>CRAIG SCHIPPER</b>	
<b>PROFESSION:</b>	Consulting Mechanical Engineer.	
<b>POSITION:</b>	Director	
<b>TESTIMONIAL:</b>	NZ Chartered Professional Engineer. UK Chartered Engineer. Bachelor of Engineering, Mech. Auckland. Member Institute of Professional Engineers NZ. Member Chartered Institute Building Services Engineers. Emprove Registered Energy Auditor	

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## SELECTED SUMMARY OF PAST 10 YEARS EXPERIENCE

### -2006: **Emc<sup>2</sup>. Auckland.**

An opportunity presented the formation of a new consulting business that would provide the platform through which I could continue to practice my Engineering knowledge, Emc<sup>2</sup> was the result, successfully operating 4 years. In 2005 Emc<sup>2</sup> entered the register as an energy auditor. In the time since incorporation, some interesting projects completed, are:

- Design of 10-tonne SWL concrete tilt slab lifting gear for Auckland Prison
- Hi-Tech Appliance testing facility design for Fisher and Paykel, \$700,000.00 mechanical.
- Amusement device certification
- Pressure vessel certification study
- Extrusion cooling system & seismic designed 32T 3-storey plant support for Amcor Flexibles
- HVAC due diligence reports and audits for Auckland facility managers

### 2002: **IBEX Interiors. London**

Contracted for 6 months as Mechanical Technical Manager. Responsible for subcontractors working on the mechanical and fire systems fit-out within a new 9 level commercial office building. M&E services cost £5 million, total project cost £16 million. Fast track project, 6 months completion. Responsible for the quality of installation to codes and design.

### 2001-02: **Cundall Johnston Partners (CJP). London**

Contracted for 6 months as a senior Building Services Design Engineer. Responsible for the day-to-day engineering design and operations of one of CJP's key clients, JP Morgan Chase Bank. Project cost £2 million. Granted chartership to CIBSE as building services expert.

### 2000-01: **RJ Nelligan & Associates Ltd**

Associate within this firm of consulting engineers, considering partnership shareholding. My day-to-day role was as Project Engineer and responsible for investigation and report writing for the insurance a legal sector. Some projects completed in this period:

- 120 tonne Safe Working Load spreader beam
- Structural modifications to a 1500 seat portable bleacher using Nastran FEA
- 150 tonne filter press detailed design and specification
- Chemical storage tank portal frame weather shelter
- Fatigue Design check on PRADA America's cup Flagpole

### 1998-99: **British Broadcasting Corporation, Building Design Service.**

Building Services Engineer. This included involvement in aspects of a project management role. Some engineering systems designed were:

- Active and passive chilled beam and chilled ceiling systems
- Boiler and Chiller plant design and installation monitoring
- Pumped LPHW radiator circuits (both compensated and constant temperature).
- Detailed plantroom designs and specification writing

### 1996-97 **RJ Nelligan and Associates**

General mechanical engineering designer and Accident and failure investigator.

- 8 axle B-Train trailer coupling failure
- Helicopter trailer accident and claim
- Design of timber treatment pressure vessels
- Design of 5t SWL mobile A-frame gantry
- Design of lightweight directional drilling rig
- Seismic design transformer supports
- Chemical storage tank design
- Design feasibility sub-sea structures
- Boat lifting device design
- Fire caused by aluminium rivet failure
- Water tanker design
- Fire system jockey pump failure