Lincoln Chua **Cell: (250) 8520929**

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# PROFILE

# A dynamic, bilingual P. Eng. eligible Engineer recognized for in-depth knowledge involving building mechanical and electrical systems. Possesses significant engineering and leadership experience managing capital project replacement, energy audits and facilities operations. Proficient conducting financial feasibility studies with demonstrated ability directing teams of technical professionals to meet or exceed project goals. Adept in applying computer technology software to work processes achieving improvement in quality and savings in time and budget costs.

**AREAS OF EXPERTISE**

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| --- | --- |
| * Project Management | * Building Mechanical & Electrical Systems |
| * Energy Modelling | * Facilities Management |
| * Energy Audits & Management | * Energy Conservation |
| * Key Stakeholder Communications | * Occupational Health & Safety |
| * Water Reservoir distribution system | * Budget Feasibility & Forecasting Analysis |

**PROFESSIONAL EXPERIENCE**

**Thompson Rivers University (TRU), Kamloops, BC 2006 – 2015**

**Associate Director, Facilities Services**

## Headed the maintenance and upgrading of the HVAC system, Electrical System, Boilers, Plumbing and Sanitary system, Fire Protection system, and Gas services in a one and a half million square foot floor area campus

* Participated in Energy Audits of buildings totaling 60,000 sq. m in floor area as part of BC Hydro’s Continuous Optimization Program
* Worked with Department of Environment and Sustainability in introducing energy conservation measures throughout the campus

## Client side liaison with Capital Projects Department for the construction and commissioning of the 7,300 square meter House of Learning (LEED Gold), 3,400 square meter BC Centre for Open Learning, 2,300 square meter Materials Distribution Centre, and 3,700 square meter Law Building totaling over a $ 100 million

## Conducted budget forecasting of capital projects for VP, Finance and Administration

* Managed an operating budget of $800K and a capital budget of $500K annually to reduce cost and improve efficiencies
* Managed public bid process: preparation of tender documents and specifications, issue notice of bidding process on public website, conduct site show rounds, assess submissions from contractors, and recommend award to Director, Facilities Services
* Managed small scale capital projects (Chillers, RTU, Boilers, controls system replacement etc.) amounting to a total of $1.3 million
* Member, Joint Occupational Health and Safety Committee
* Interviewed and hired staff in frontline maintenance of HVAC and Electrical systems

**Alcoa, Toronto, ON 2004 – 2006**

**Material Handler**

* Operated machines to retrieve material from shelves in an ISO 9000 unionized environment
* Worked in teams of two to retrieve 6 m long aluminum protrusions used for windows, door frames, walls

**University at Buffalo, State University of New York 2001 – 2004**

**Graduate Student**

* Used optimization algorithms to design a potable water reservoir system and a water pipes distribution system
* Used genetics algorithm to design a cryogenic refrigerator

**National University of Singapore, Singapore 1993 – 2001**

**Facilities Manager**

* Headed the maintenance of water reservoir distribution system, Plumbing and Sanitary,Fire Protection, and Gas services in the eight million square foot campus
* Wrote, tendered, awarded, and monitored onsite the contract for laying five km of 12 inch diameter underground water pipes costing $900 K
* Modeled the operation of a one and a half million gallon concrete reservoir using MS Excel to determine the capacity of a replacement reservoir

# EDUCATION

### The University at Buffalo, The State University of New York, NY 2004

Master of Science, Mechanical Engineering

The National University of Singapore, Singapore **1988**

#### Bachelor of Engineering, Mechanical Engineering

#### (Certified by WES to be equal to a Canadian 4 year engineering degree program)

**PROFESSIONAL DEVELOPMENT**

* Energy modelling software, Equest – conducted by Boston Architectural College
* RETscreen training to assess financial feasibility of introducing Energy Conservation Measures
* Energy Manager’s workshop organised by BC Hydro

# COMPUTER SKILLS & KNOWLEDGE

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| * Programming languages: C, Fortran, Basic, OpenGL | * 3D design software, Pro/Engineer |
| * Energy Modelling software, Equest | * HVAC controls software, Siemens |
| * Energy Modelling software, RETscreen | * HVAC controls software, Automated Logic Systems |
| * Computerised Maintenance Management Software, Webworks | * HVAC controls software, Johnson Controls |
| * Accounting software, FAST | * MS Office |