



AREAS OF PRACTICE

Power Distribution
Emergency Power Generation
Lighting
Fire Alarm
Data & Voice Communications
Security
Nurse Call

PROFILE

Bo has 20+ years of electrical engineering experience in healthcare, institutional, educational and commercial projects. Bo provides electrical engineering design for power distribution, emergency power generation, lighting, fire alarm, data & voice communications and security systems. His project management experience includes major power system projects for Surrey Memorial Hospital, Eagle Ridge Hospital, Chilliwack Hospital, Royal Jubilee Hospital, St. Paul Hospital, Burnaby Hospital and Richmond Hospital.

EDUCATION

Bachelor of Electrical Engineering, Xi'An Jiao Tong University, Xi'An, China 1994

PROFESSIONAL AFFILIATIONS

Association of Professional Engineers and Geoscientist of British Columbia EGBC
Canada Green Building Council CaGBC

CAREER

AG Engineering 2011 - 2017, 2020-Current
Integral Group Inc. 2017 - 2020
WSP(formerly as GENIVAR) 2008 - 2011
RFA Consulting Electrical Engineers Inc.(GENIVAR Acquisition) 2005 - 2008
China State Construction Engineering Cop. 1994 - 2005

PROFESSIONAL EXPERIENCE

Healthcare - Partial List

- **St. Paul's Hospital:** new 4x1000kW generator & 25kV, 600V distribution; Cath Lab # 1 & #2 Upgrade; Multiple upgrade & renovation projects in StPH
- **Surrey Memorial Hospital:** Energy Centre Upgrade(new 2x2800kW generators, 2x6000 kVA substation, 5kV ATS system and renovation of 25kV, 5kV & 0.6 kV distribution); Building A, B, D & F electrical system Upgrade
- **Royal Jubilee Hospital:** Energy Centre & Site Infrastructure Upgrade (new 3x3000kW generator, 2x6000/9000kVA transformer, 25kV & 12kV distribution, 12kV ATS & new Energy Centre)
- **Richmond Hospital:** Electrical Distribution & Generator Upgrade (new 3x800kW generator, 2x2500 kVA substation, ATS, 12kV& 600V distribution)

- **Royal Columbian Hospital:** Data Centre Power Upgrade; 12kV Service Upgrade; Electrical Master Plan (Phase 1 - new 3x3250kW generator, 25kV & 12kV distribution, 12kV ATS & new energy centre)
- **Chilliwack Hospital:** Electrical Infrastructure Project (new 3x750kW generator, ATS, main distribution, a wing distribution and renovation of electrical rooms)
- **Burnaby Hospital:** New Emergency Power System (2x1000 kW Outdoor Generator, ATS, H/V & L/V distribution upgrade)
- **Eagle Ridge Hospital:** Electrical System Upgrade (2x2000 kVA outdoor unit substation, ATS & main distribution)
- **Delta Hospital and Ridge Meadows Hospital:** MDR & OR renovation
- **Fraser Canyon Hospital:** Electrical System Upgrade (2x500 kVA outdoor unit substation, 2x400kW outdoor generator, ATS & distribution)
- **Surrey Outpatient Facility:** Main Electrical system(2x1500kVA transformer, ATS, 25kV & 0.6kV distribution)
- **Queen's Park Care Centre:** Electrical System Upgrade (New 1000kVA outdoor substation, 400kW outdoor generator, ATS & distribution)
- **Saanich Peninsula Hospital:** Electrical System Upgrade (2x750kVA transformer, 2 x 500 kW outdoor Generator , ATS, 12kV & Distribution)
- **East Kootenay Hospital:** Emergency Power System Upgrade (2x1.5/2MVA transformer, 2 x 750kW outdoor Generator , ATS, 25kV & 600V Distribution)
- **Numerous projects for ICU, OR, MDR, CT, X-Ray, MRI, PET, CDU, Nurse Call, Fire Alarm upgrade throughout facilities of FHA, VCH, IHA, VIHA, NHA, PHC, BCCA & other health care authorities**

Institutional & Infrastructure

- **UBC:** Thunderbird EV Charger project (include V2G EV charger, 250kW Battery Power Storage, 1MW Solar Power System & Hydrogen Generation System); multiple labs, classrooms, office renovation projects in UBC
- **BC Hydro:** Fire Alarm system assessment & upgrade for multiple office buildings & facilities
- **District of North Van:** Life Safety System assessment & upgrade for multiple daycare facilities
- **Square Bay Waste Water Treatment Plant**

Commercial & Residential

- **Viewstar Lot A:** 700 units in a group of six(6) high rise towers plus commercial space on the ground level; total area over 600,000 sqft.
- **West King Edward Residential:** 70 units in a low rise building plus townhouse.
- **Multiple TI projects for offices, restaurant, coffee shop & retail spaces.**

****Full project list is available upon request****