



ALLAN K. LEE, P. ENG, MBA, CEC

DIRECTOR

BERKELEY RESEARCH GROUP
151 Yonge Street
11th Floor
Toronto, Ontario M5C 2W7
Canada

alee@thinkbrg.com

Experience

- Berkeley Research Group
- Avisent Consultants
- LeaderCore
- Aecon Industrial
- Walbridge Specialty Services
- The State Group
- ABB

Education/Certifications

- Professional Engineer, Ontario, Canada
- Construction Estimator Certified as accredited by the Canadian Institute of Quantity Surveyors
- Standing member of PMI, AACEi, CIQS, PEO and OPSE
- Bachelor of Electrical Engineering
- Master Business Administration

Spoken Languages

- English
- Cantonese
- Mandarin (intermediate)
- Spanish (intermediate)

Allan, an electrical Professional Engineer in Ontario Canada with twenty-six years of international experience in project management and construction of Nuclear, Power, Oil & Gas, Infrastructure, Transportation, Industrial, Commercial and Institutional projects. He has held senior management positions and is hands-on in managing large scale multi-discipline projects.

Allan is an expert on a variety of Construction, Business and Operational issues including Schedule and Engineering Impacts, Project delay and disruption analysis, Changes to the Work, Operational and Business impacts, Labor Productivity, Estimating, Construction Means and Methods, Financial and Cost impacts, Forensic cost auditing, Project Management systems integration, ERP system integration, Earned Value Management, Project financial and Schedule Risks Simulation.

Professional Experience Highlights

- Practical experience in the Canadian Electrical Codes
- Performed schedule and financial analysis for complex multi-discipline international mega projects over \$3B+
- Led multiple project management systems implementation and integration
- Held divisional P&L responsibility for large multi-trade contractors & corporations with offices across North America
- Performed multi-discipline schedule integration for large complex projects
- Performed integrated schedule and cost risk analysis using Monte Carlo simulation, Primavera Risk Analysis[®], Pertmaster[®], Crystal Ball[®]
- Cost auditing, Construction claims and schedule delay analysis expert reporting
- Expert master scheduler using Primavera P6[®], P3[®], Microsoft Project[®] & SureTrak[®]
- Extensive project controls experience for complex multi-discipline mega projects
- Certified expert in Primavera Contract Management[®] (Expedition[®])
- In-depth working knowledge in Prolog Manager[®], Ares Prism[®]
- Certified construction estimator on large industrial projects
- Developed and implemented methodology for project forecasting and budgeting
- Developed and implemented project operational audit processes
- Established role based project dashboard with relevant KPI for performance tracking
- Enterprise project management office, resource management and ERP system integration
- Maintenance, turnaround, shutdown and restoration planning & execution
- ISO 9000-2000, ISO 14001 trained, PMI PMBOK[®] trained

Representative Experience

- Provided project oversight and on-site management support for owners, developers, EPCM and subcontractors on projects from \$20M to \$1.0 B+
- Represented owners, developers, EPCM and sub-contractors from budget to project execution to close-out/commissioning
- Forensic schedule analysis in accordance to best-in-class standard from PMI, AACEi and DCMA
- Project schedule risk analysis using Monte Carlo simulations on projects valued from \$200 million to \$3 billion+
- Perform comprehensive financial/estimate risk analysis on complex projects
- On-site execution and management of project controls and scheduling
- Extensive experience on pre-construction budgeting, planning, risk assessment, constructability reviews, construction close-out/hand-over and commissioning on power projects
- Hands-on field experience on power generation and transmission projects in North America and abroad
- Expert in project progress assessment on power and complex projects
- Performed constructability assessment on M&E scope and developed/implemented earned value tracking
- Performed What-if analysis on various scenarios with client on Force Majeure claims
- Developed resource utilization worksheets and planning to perform feasibility study on critical contractual milestones

Representative Power Generation Projects

- Manitoba Hydro – Bi Pole III Synchronize Condenser project
- SaskPower Chinook Power Station – Simple Cycle Power Station Baseline Schedule / Risk Analysis / Oversight
- SaskPower Queen Elizabeth Repowering project – Combined Cycle Power Plant - Construction Turnover (CTO) and Project Controls Manager for EPCM
- Budgeting / planning / proposal preparation on Synthetic Gas Co-Gen Projects
- Halton Hills Combined Cycle Generating Station – BOP Electrical & Instrumentation
- Goreway 850MW Combined Cycle Power Station Civil, Utilities and Piping Installation
- Goreway Air Cooled Condenser System Installation
- Cardinal Combined Cycle Co-generation project
- Ontario Hydro Lakeview Thermal Generating Station Rehabilitation Project
- Tianshenqiao Hydroelectric Power Plant 500kV GIL Project
- Yantan Power Plant 500kV Gas Insulated Switchgear (GIS)
- Yantai Power Plant 500kV Gas Insulated Switchgear (GIS)
- Various HV projects in Hong Kong China 69kV to 400kV

Representative Nuclear Power Projects

- Ontario Power Generation Darlington Nuclear Facility – Retube Feeder Replacement Island Support Annex Building
- Ontario Power Generation Darlington Nuclear Facility – Refurbishment Project Office Building
- NRC Security Enhancement Project for 9 Nuclear Power Plants in the USA – Project Oversight

- Arkansas Nuclear One, Russellville, Ark (PWR) – Various Capital upgrade projects
- Grand Gulf Nuclear Power Facility, Port Gibson, Miss. (BWR) – Various Capital upgrade projects
- River Bend Nuclear Power Facility, St. Francisville, La (BWR) – Various Capital upgrade projects
- Waterford 3 Nuclear Power Facility, Killona, La – (PWR) Various Capital upgrade projects
- Vermont Yankee Nuclear Power Facility, Vernon, Vt. (BWR) – Various Capital upgrade projects
- Indian Point Nuclear Energy Centre (PWR), Buchanan, NY – Various Capital upgrade projects
- FP&L NextEra Duane Arnold Nuclear Facility Torus Reline project
- James A. FitzPatrick Nuclear Power Facility, Scriba, NY (BWR) – Various Capital upgrade projects
- Palisades Nuclear Power Facility, Covert Township, MI (PWR) – Various Capital upgrade projects
- Pilgrim Nuclear Power Facility, Plymouth Mass (BWR) – Various Capital upgrade projects
- OPG IMS Nuclear Line of Business PMO System Implementation Prototype
- Bruce Power Contract Administration System Implementation Prototype

**Representative
Transmission &
Distribution, Energy Oil &
Gas Projects**

- Waterloo North Hydro 27.6kV Substation
- Dailmer Chrysler Pillette Road Plant 115kV Substation
- Ontario Hydro Bramalea, Tomken & Brown Hill projects 230/44kV DESN Substations
- Toronto Transit Commission Sheppard Subway Extension 27.6Kv & 5kV substations
- Spectra Energy Cabin Lake Expansion Program – Fort Nelson Natural Gas North Processing Facility
- Syncrude Canada FFT-CFSP – Completions, Pre-commissioning & Commissioning Planning & Cost Control
- Qedi Americas – Corporate Project Controls Management for all Oil & Gas projects

**Representative Mining /
Food & Beverage Projects**

- CBI Gateway Project – Brewery with ASRS / AGV – pre-construction planning and PMO systems integration
- Vale Inco NL - Commercial Nickel Processing Plant – Schedule Risk Analysis
- Vale Inco NL – Commercial Nickel Processing Plant – FEL/3 Budget Risk Analysis
- Coca Cola Peterborough Plant Expansion with automated racking systems
- INCO Plant rehabilitation in Sudbury, Ontario
- IPSCO Mini Mill in Iowa, USA
- Algoma Steel 27.6kV Harmonic Filter Installation
- AK Steel APL and CPL projects, Rockport, IN

**Representative
Infrastructure / Civil /
Transportation Projects**

- Toronto Transit Commission – Sheppard Subway Extension & Various Projects
- Toronto Transit Commission – Union Station Subway Station Controls
- Toronto Transit Commission – Wilson Yard Rail Signaling Equipment
- GTAA - Toronto Pearson Airport New Terminal - Baggage Handling System
- Hugh John Flemming Bridge Rehabilitation – Hartland, NB
- Cyrville Road Underpass Bridge Replacement – Ottawa, ON
- Witemud Drive - Quesnell Bridge Widening & Rehabilitation – Edmonton, AB
- St. John Harbour Bridge Rehabilitation – St. John, NB
- Athabasca River Bridge Rehabilitation – Fort McMurray, AB

**Representative
Commercial /
Institutional Projects**

- Apotex Richmond Hill expansion with automated warehousing system on super flat flooring
- MGCS New Data Centre – PPP project
- Galt Waste Water Treatment Plant Project
- The University of Western Ontario New Advanced Biology Laboratory Building
- London Central Library

**Representative
Automotive Projects**

- DaimlerChrysler Bramalea Assembly Plant – Various projects
- Honda Alliston Plant MV distribution
- General Motors Oshawa Plants – Various projects
- General Motors - Combustion safety inspection program for 33 assembly facilities
- GM Locomotive Plant – Various maintenance & construction projects
- General Dynamics Plant – Various maintenance & construction projects
- Ford Construction Commodity Management for 9 facilities
- Ford OTP ASRS Project
- Ford Motor Company, Ontario Various projects from \$250K to \$5M
- Toyota Motor Manufacturing Plants – Various projects