

JOSEPH R. BEVERIDGE

BEng PhD



WestGlen Consult Ltd.
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CURRENT POSITION

Director and Head of Systems Development

EDUCATION

- PhD in Electrical Engineering, University of Strathclyde in 2005
- BEng in Electrical and Mechanical Engineering (Joint Honours), University of Strathclyde in 2000

DATE OF BIRTH

13th January 1978

NATIONALITY

British

LANGUAGE(S)

English (mother tongue), Spanish (fluent)

EXPERTISE

- Hydropower
- High-Voltage
- Technical Problem Investigation both in Mechanical and Electrical
- Project Management
- Commissioning & Testing
- Site Management & Organisation
- Owner's Engineer Services
- Quality Assurance
- Quality Control
- Installation Process

EXPERIENCE

WestGlen Consult Ltd., Renfrew, UK

Director and Head of Systems Development, Oct-17 to present

Responsible for the development of WestGlen Consult's system of site and project management technology, with a focus on large scale renewable energy projects.

Statkraft (seconded to Fountain Intertrade Corp), Panama

Commissioning Manager , Bajo Frio Project, Feb-14 to Mar-16

Bajo Frio Hydropower Project Chiriqui, Panama. (concrete and rock-filled dam, 2 powerstations, six 10.285MVA, Kaplan type and one 2.350MVA horizontal Francis turbine and generator unit)

Led the safe commissioning of all elements of the plant: Commissioning of three substations with back-feeding and energizing of the site transmission line between the 2 powerhouses; impounding of La Potra Dam; filling of the 2km adduction canal; commissioning of both powerhouses.

SN Power (Seconded to SN Aboitiz Power - Banguet, Inc), Baguio, Philippines project Technical Manager, Commissioning Leader (and Deputy Project Director), AMBI Project, Mar-12 to Jan-14

Ambuklao and Binga Rehabilitation and Refurbishment Project, Benguet, North Luzon, Philippines: Four 41MVA, Francis type turbine and generator units.

Managed all technical matters during the AMBI Project and associated commercial issues. Entered project during installation phase of units at Binga site (Four, 41 MVA, new Francis units, with new generator and control). Liaised with the Engineer in ensuring delivery according to contract and in accordance with FIDIC Contract.

Responsible for planning of refurbishment and commissioning. Coordinated day to day progress of the project delivered by the 3 main contractors. Ensured delivery of installation of units on or ahead of accelerated schedule for all units. Responsible for site safety in capacity as deputy Project Director and ensured rigorous adherence to safety plan throughout project

Employer's representative and Commissioning Leader for the last 2 units ensuring delivery on schedule: planning and coordination of assets ahead of commissioning.

Andritz Hydro, Manitoba, Canada

Commissioning and Electrical Installation Engineer, Feb-11 to Mar-12

Wuskwatim, Manitoba, Canada: Three 86.1MVA, Propeller type turbine and generator units.

Electrical installation Engineer and in Commissioning Engineer of generating units in a 3 unit, 86.1 MVA each, water-to-wire hydroelectric power station. Responsible for delivering precommissioning of generator, turbine, and governor. Scheduling and execution of all precommissioning activities including: cable installation verification, testing of all equipment and instrumentation, panel checks and systems readiness for wet-commissioning. Implemented LOTO system. Commenced commissioning of governor system, and commissioned PLC controlled brakes and jacks system (programming).

Technical Advisor (TA) in electrical installation: overseeing conduit and cable tray installation, cable pulling, megger and continuity, and termination.

Andritz Hydro, Manitoba, Canada

Installation Engineer, Quality Assurance, Aug-10 to Feb-11

Wuskwatim, Manitoba, Canada.

Responsible for quality assurance. Ensured adherence to specification, erection procedures, and best practice; resolution of non-conformities; and control of as-built drawings.

Andritz Hydro, Laos PDR

Commissioning Engineer, Nam Theun II Hydroelectric Power Project, Dec-08 to Jun-10

Nam Theun II, Laos PDR: Four 250 MW Francis type turbine and generator units, and two 43 MW Pelton type turbine and generator units.

Manager of commissioning of all auxiliary systems. Managed the site pre-commissioning team and the pre-commissioning quality control documentation. Managed the on-site production of "as-built" drawings, and laterally all day-to-day, on-site work of mechanical and electrical teams, including punch-list execution. Provided solutions to on-site design problems and warranty defect issues.

University of Strathclyde, Glasgow, UK
Research and Development Engineer, 2008

Development of novel, high-voltage, pulsed-power switching equipment for use in Linear Transformer Driver at Sandia National Laboratories. Responsible for design, development and testing.

University of Strathclyde, Glasgow, UK
Research and Development Engineer, 2007 to 2008

Development of a pulsed-power based plasma-channel drilling technology for application in oil exploration. Laboratory prototype development and on-site field testing.

ROLEST novel electrical sterilization technologies, Glasgow, UK.
Technology Development Manager, 2005 to 2007

Development of novel electrically-based methods for disinfection and sterilization.

Responsible for the technical development and commercial advancement of sterilisation technologies. Project management; development, coordination and supervision of research programmes and projects.

Design, manufacture and testing of sterilization technologies

SAMTECH Ltd., Glasgow, UK
Consultant Engineer, 2000 to 20008

Consultant designer and manufacturer for Samtech Ltd., designing and producing bespoke High-Voltage, pulsed-power generators, diagnostic hardware and associated equipment; also HV (lightning impulse) testing of electrical power equipment (power transformers etc.) to various international standards

University of Strathclyde, Glasgow, UK

Doctorate in Electrical Engineering – Pulsed Power, 2000 to 2005

Research in Pulsed Power. Authored and co-authored 20 journal and conference papers (4 peer reviewed journal papers and 1 invited paper to IEEE). Eight years of experience in high-voltage, high-frequency diagnostic techniques, and high-voltage, high-power switching.

Weir Pumps Ltd., Glasgow, UK

Commissioning Engineer –Shin Refurbishment, Jul-03 to Aug-03

Training in mechanical manufacture: fully trained in fitting, turning, milling, and some fabrication. Sales and marketing, production of tenders, and on-site testing and refurbishment.

**OTHER
PERTINENT
EXPERIENCE**

Trained in City and Guilds 6037 High-Voltage System Operations