# Senior Technical Specialist - George Brown

B.Sc. (math physics engineering)
Diploma in Electrical Engineering Technology
STCW marine engineer
Military (naval) trained
Former Transport Canada Ship Safety Surveyor
Certified OCMIF / SIRE inspector
A+ Certified PC technician

#### **Naval Architecture**

Appointed marine surveyor under Canada Shipping Act to survey vessels

- Knowledge of hull structures and fire protection
- Familiar with structural repair methods and evaluation
- Experience with propellers, thrusters and rudders for vessel control
- Knowledge of factors affecting vessel stability stability points, free surface, CG, buoyancy
- Designed and deployed mooring systems for current meters and wave riders.
- Knowledge of vessel openings and control of, launch and recovery systems, mission equipment
- Experience background includes passive and active corrosion control systems
- Has several years of experience in vessel surveys and condition evaluation
- Background includes application of Classification Society rules and Canada shipping Act in evaluation and survey of vessels.
- Operational experience in operation, maintenance and repair of cargo lifting equipment
- Previously, block and tackle inspector with Transport Canada

#### **Marine Engineering**

B.Sc. in engineering principals and certified STCW marine engineer

- Expert in marine electrical distribution systems design, construction, test, evaluate, maintain. Participated in development of national standards for marine electrical systems
- Completed several FMEA studies of marine power plants and dynamic positioning systems.
- Generated test and trials programs for commissioning of marine systems.
- Conducted commissioning trials and system testing for oil rigs and ships
- Managed projects for the construction and maintenance of vessels
- Knowledgeable in the application of marine thrusters, propellers and rudders
- Experienced in the design and application of marine instrumentation and control systems, including PLC control of machinery systems
- Selected cable and documented interface requirements for marine systems
- Maintained ship's auxiliary systems refridgeration, air handling, waste, potable water...
- Maintained and operated deck machinery and cargo handling equipment
- Administered a vibration analysis program across a fleet of vessels
- Performed analysis of gas turbine control system. Trained in GT operations.

### **Communication and Navigation Systems**

Previously employed by a marine electronics company; Atlantic Electronics.

- Installed and tested marine radio, radar, GPS, sonar, navtex and autopilot systems
- Familiar with DSC radio control
- Can tune antennas for HF/MF communication (adjust SWR)
- Background in networking includes digital signal processing
- Have consulted on the operation and application of UPS systems
- Installed and maintained instrumentation and monitoring systems for ships
- Involved in the design of control consoles for ships (CCG 500 class)
- Integrated vessel systems for navigation (radar, GPS, AIS, sonar) use of NMEA networks
- Installed and tested marine gyroscopes
- Aware of SOLAS requirements for EPIRBs, GMDSS, SART
- Installed and tested autopilot and dynamic positioning systems

### **Marine Informatics Technology**

Post-secondary education in networking technology and digital system design.

- Applied structured cabling to voice and data networks
- A+ certified PC technician
- Familiar with WAN and peer to peer networking topologies star, mesh, ring
- Installed and aligned satellite communication antennae
- Installed and tested wireless networks
- Familiar with IT security methods
- Can deploy offsite mirroring for disaster recovery and business continuity
- Have used many windows and unix based applications
- Can test networks for loading and utilization

#### Aids to Navigation

- Specified, installed, and maintained visual aids: nav lights, beacons, strobes
- Repaired, replaced and maintained fog horns
- Designed, deployed and recovered bouy and bouy mooring systems
- Familiar with requirements of collision regulations markings, signs and signals

### **Integrated Logistics Support**

Performed duties of senior logistics support manager for machinery control systems for RCN.

- Managed assets for machinery control systems
- Followed DND standards for documentation control
- Identified configuration management elements of machinery control systems
- Analysed bid submissions for equipment to comply with requirements
- Determined sparing, transport, storage and maintenance requirements
- Developed training plans for personnel to manage of equipment
- Deployed predictive maintenance programs for health monitoring of equipment
- Educated in elements of contract law and mechanics lien act.
- Obtained extensive training in Integrated Logistics Support at Queen's University with DND

#### <u>Infrastructure</u>

- Familiar with standards for helicopter landing facilities
- Certified for helicopter emergency duties
- Significant experience in evaluation of grounding systems for helicopter fueling
- Experienced in siting transportable accommodations, generating plants, and support buildings
- Experienced in supplying support services for remote installations water, sewage, power

#### **Health Safety Environment**

- Conduct HSE surveys of vessels
- Familiar with IMO emission standards
- Certified under WHMIS
- Knowledgeable in transport mechanisms in the environment
- Can use and maintain sensors to detect environmental contaminants (LEL, H<sub>2</sub>S)
- Trained in chemical, nuclear, and biological hazards
- Aware of hazards due to ionizing radiation UV, laser, microwave, RF
- Participated in oil dispersion studies in marine environment performed experiments and collected data
- Deployed and retrieved current meters, wave riders and other sensors for marine environment monitoring
- Previously, pollution control officer with Transport Canada
- Trained in marine emergency duties fire, damage control, sea survival, rescue, first aid

## **Project List**

## Vessels/ships

Acergy Falcon

Andrea Chouest

Atlantic Condor

Blue Marlin

Bourbon Liberty 121

Bourbon Liberty 201

Burin Sea

C Freedom

C Fighter

**Campos Carrier** 

Campos Challenger

**Campos Contender** 

**Chloe Candies** 

Claire Candies

Elizabeth C

**Global Hercules** 

Global Orion

**Grand Slam** 

Gulmar Falcon

Helix Caesar

HR Hughes

Jascon 31

Nanuq

Nicki Candies

Santo Supplier

Seaforth Atlantic

SeaJacks Kraken

SeaJacks Zaratan

StimStar II

Technip Deep Blue

**Technip Pioneer** 

Terrel Tide

Trico Northern Canyon

Trinity Sea

## Rigs

Delba III

Development Driller II

**Development Driller III** 

Discoverer Enterprise

Herema Balder

Herema Thialf

Eirik Raude

Pelerin

Rowan Gorilla III

Vinland

West Aquarius

#### **FMEA**

Adams Arrow

Atlantic Condor

Delba III

Global Orion

Kirt Chouest

Nicki Candies

Robert Adams

SeaJacks Kraken

SeaJacks Zaratan