

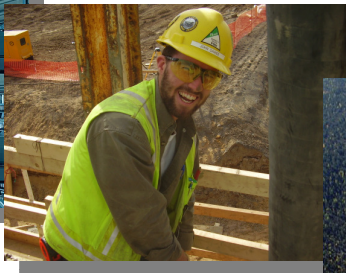
**ZEYAD H. ELSHIRBINY**



By completing four work terms through the co-operative engineering program at Memorial University Zeyad has been exposed to a variety of professional experiences. He has gained extensive knowledge in research, consulting, and project management. Zeyad has been recognized by various employers and professors as a quick learner who is highly motivated and productive. He is a valued member of the Keystone Engineering team.

Zeyad's professional experience includes:

- Research and consulting with the geotechnical group at C-CORE. This involved conducting several laboratory experiments, such as shear box and Triaxial tests, and developing a physical model for centrifuge testing.
- Analysis and design with the City of St. John's that involved creating computer simulation models for storm and combined sewer systems. Created computer simulated floodplains using HEC-RAS and HEC-HMS.
- Project management at Husky Energy including the preparation of documents such as bid packages, contracts, bid evaluations, cost estimates and communication with involved parties.

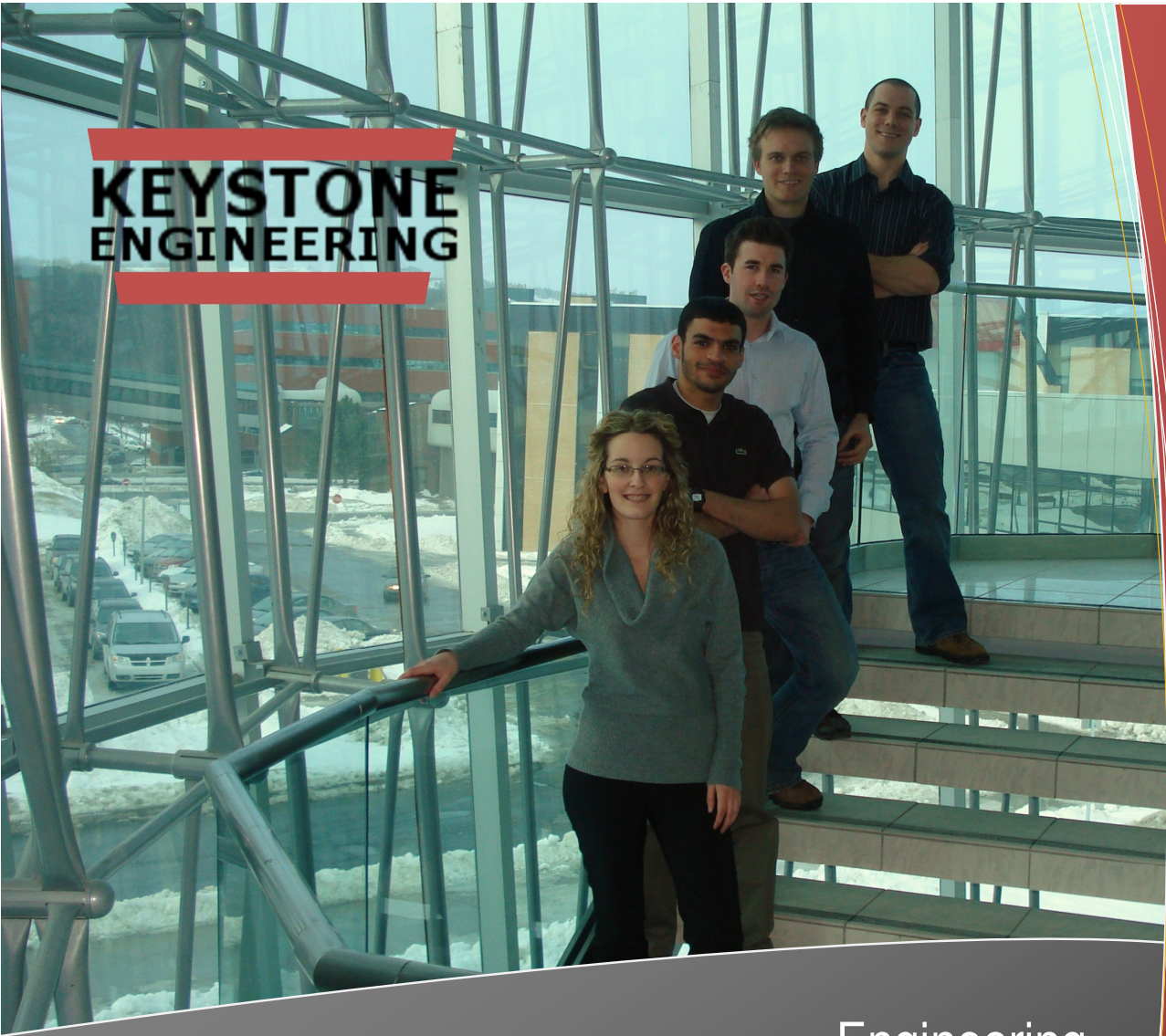


**STRUCTURAL  
GEOTECHNICAL  
HYDROTECHNICAL  
PROJECT MANAGEMENT**

The Keystone Engineering team is committed to delivering quality work to its clients. We believe the keys to success lie in communication, dedication, and teamwork. The collection of individuals forming this team have extensive industrial and academic experience in numerous engineering fields. They can be relied upon to produce the highest quality results.

**KEYSTONE  
ENGINEERING**

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**KEYSTONE  
ENGINEERING**

**Engineering  
Services**

Structural  
Geotechnical  
Hydrotechnical  
Project Mgt.

# About the Keystone Engineering Team

## STRIVING TO MEET THE NEEDS OF YOUR BUSINESS

The Keystone Engineering team consists of five young and innovative engineers committed to providing superior engineering services. Our level of technical expertise, academic strength, and diverse industrial backgrounds ensures a high degree of client satisfaction. More specifically, the group's experience in the structural, geotechnical, and hydrotechnical fields makes Keystone Engineering the right choice for your engineering project.

## Our Team

### CHRISTIAN A. JOHANSEN

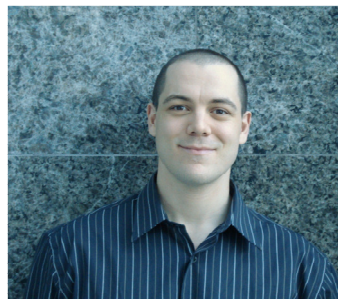


Through the co-operative engineering program at Memorial University Christian has obtained a variety of professional experience ranging from research to project management. He has been described by previous employers as a team player who is highly innovative and creative. His expertise lies within the fields of structural analysis, geotechnical engineering, finite element modeling, and design verification. Christian is also of high academic standing and takes pride in producing quality work.

Christian's professional experience includes:

- Project management experience from design verification engineering with DNV. This involved client communication, managing the financial aspects of each job, and technical analysis of structures such as offshore containers, bolted connections and crane foundations.
- Finite element modeling using software packages such as ABAQUS, STAAD and GeniE.
- Industrial research projects with C-CORE related to finite element modeling of geotechnical structures such as laterally and axially loaded piles and caissons.

### JUSTIN H. SKINNER



Justin has a diverse background in various engineering fields ranging from structural hoisting design, project management, and flow assurance in the oil industry. Justin's academic achievements include numerous scholarships, awards, and publications. His hard working philosophy in school is paralleled by his exceptional work ethic within the industry. This mix of academic knowledge and practical experience makes him a strong asset to the Keystone Engineering team.

Justin's professional experience includes:

- Structural hoisting design with Syncrude Canada Ltd. including load calculations in accordance with recognized standards, member sizing, geotechnical bearing calculations, and computer aided drafting.
- Project manager of a water drainage project with UMA Engineering Ltd. This included contract administration, client communications, budget control, and the preparation of reports.
- Working with the reservoir management team of both Hibernia and Terra Nova. Work included reservoir simulation studies, hydraulic modeling, and permeability studies.

# Our Goal

Our goal at Keystone Engineering is to provide our clients with professional engineering services created with the pride, integrity and passion that all our team members possess. We strive to develop consistently accurate, complete, and creative solutions for an array of engineering challenges.

### HYWEL J. DAVIES



John's high energy and professional work ethic makes him an important element of Keystone Engineering. Through the civil engineering program at Memorial University he has gained valuable work experience in both the construction and consulting aspects of the profession. His work terms have taken him to numerous sites across the country where he has contributed to several significant projects. John has a background in performing earth and concrete dam stability analyses, site supervision, steel design, scheduling, costing and many other engineering duties.

John's professional experience includes:

- Performed earth and concrete dam stability analyses for dam safety reviews in Nova Scotia and New Brunswick for Hatch Energy.
- Produced designs in accordance with the Canadian Steel Design code for the rehabilitation of structural features at Brunswick Mine for XStrata Zinc.
- Cost and field engineer for Peter Kiewit Sons' Inc in Voisey's Bay and Fort McMurray. Ensured that cost, safety and quality standards were being upheld for the construction of a concrete pump house and the infrastructure for a nickel mine.
- Has exceptional AutoCAD, AutoCAD Civil 3D, MS Excel, MS Word, SlopeW, SAFI and STAAD structural software skills.

### NATASHA N. TUFF



Throughout the course of the engineering program Natasha has gained valuable experience in various fields including municipal, hydrotechnical, consulting and construction engineering. Natasha's organizational skills, personable character and work ethic make her an important component of the Keystone engineering team. With hard work and originality she has been known to impress throughout her young career.

Natasha's professional experience includes:

- Project management with RSM Mining Services in Labrador City. Supervised various construction projects including the construction of an industrial garage and maintenance shelter for trains, earth removal and the construction of tailing dump ponds.
- Preliminary subdivision design with Focus Corporation. Project required design of water and wastewater systems, curb and gutter, gabion wall system as well as land and road developments.
- Conducted research with C-CORE for the offshore oil and gas industry. Wrote a MATLAB program to predict the collision probabilities between offshore vessels and icebergs.
- Project Management with BC Hydro. Worked with the Dam Safety department to receive funding to advance with instrumentation upgrades for two dams.