

Khalid El-Darymli

Legally Entitled to Permanently Work in Canada

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Contact Details

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Highlights of My Canadian Experience

1- Plant Safety Watch

Present

United Safety

Red Deer, AB

- ☑ Passed Drug and Alcohol Test as well as Physical Demand Test
- ☑ Monitor the activities of maintenance workers during plant maintenance and turnaround projects throughout Alberta
- ☑ Confined Space Monitor, Fire Watch, Area Monitor, Bottle Watch, Gas Testing, Breathing Air Packs, and Maintain Accurate Documentation

2- Certification

2008

Enform and Safety Training Centre

Red Deer, AB

- ☑ Hold the following tickets: WHMIS, Canadian Red Cross Standard 1st Aid/CPR, H2S Alive, PST and TDG. Expires 2011

3- Driving Experience

1998 – Present

Alberta and Newfoundland

AB, Canada

- ☑ Class 5 Alberta Driver's License with a clean record
- ☑ Domestic and International driving experience including: Canada (Alberta & Newfoundland), as well as Malaysia, Thailand, Egypt, and Libya

4- Post-Secondary Education in Canada

2007-2008

Memorial University of Newfoundland

St. John's, Canada

- ☑ Completed a graduate-level engineering courses and received highest academic standing with a score of 92% (GPA: 4 out of 4)
- ☑ Graduate courses: Reliability Engineering, Safety and Risk Engineering
- ☑ Successfully passed the Graduate Research Integrity Program

5- Canadian Professional Research Experience – Please see next page

2008

Memorial University of Newfoundland

St. John's, Canada

- ☑ Main author of a professional research paper titled: "Reliability Modeling of Wireless Sensors Network for Oil and Gas Pipeline Monitoring"
- ☑ Paper is jointly co-authored with two professional engineers (P.Eng.) from Memorial University of Newfoundland.
- ☑ Paper is submitted to a professional engineering journal titled, "IEEE Transactions on Reliability"

6- Canadian Commodity

2007-2008

Memorial University of Newfoundland

St. John's, Canada

- ☑ In recognition of my overseas credentials honorably received the Engineering Graduate Fellowship of Memorial University of Newfoundland – Honor and Full Fund for the Program of Study

7- Relevant Canadian Experience

2007-2008

Various

St. John's, Canada

- ☑ Worked and volunteered as an interpreter and translator for various Canadian organizations including: Association for New Canadians, Legal Aid Commission, Eastern Health, Canada Board and others.

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Reliability Modeling of Wireless Sensors Network for Oil and Gas Pipeline Monitoring

Below is an abstract of the above-noted journal paper submitted to the IEEE Transactions on Reliability. I am the main author. The paper is jointly co-authored with Dr. Faisal Khan (PEng) and Dr. M. Hossam (PEng) from Memorial University of Newfoundland, Canada.

Abstract—Extensive network of pipelines carrying oil and gas is an integral part of any country's energy management plan. As oil and gas is characterized highly hazardous, its transportation through pipeline warrants proactive continuous monitoring. Unfortunately, there has been limited continuous monitoring of this crucial infrastructure, which causes financial losses to the industry. This paper presents a wireless sensors network (WSN) system and its reliability assessment model for oil and gas pipeline condition monitoring. As a first step, a wireless sensor system for pipeline monitoring is selected. The selected system is revised for oil and gas application considering long distance transportation. Upon system development, a reliability model for the system is developed. A simple down-to-top approach is followed to analyze the reliability of the components, subsystem, and the system. Two explanatory examples are presented to demonstrate the applications of the selected system and developed reliability model. These examples help to better understand of the interrelation between the reliabilities, the components and the system.

Keywords—Reliability modeling, Wireless Sensors Network, pipeline condition monitoring, wireless based condition monitoring

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