

Md Nafiz Ekram Tamim

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SUMMARY

- Three and half years of work experience with Chevron in process operations and safety
- Over two years of academic research experience with strong background in process safety and risk management, quantitative risk analysis, drilling safety

EDUCATION

PhD in Chemical Engineering

August 2013- Present

Texas A&M University, College Station, TX

Cumulative GPA: **4.0/4.0**

Expected date of Graduation: December 2017

BS in Chemical Engineering

October 2009

Bangladesh University of Engineering and Technology, BUET

Dhaka, Bangladesh

GPA: **3.72/4.0**

PROFESSIONAL EXPERIENCES

Graduate Research Assistant

August 2013- Present

Texas A&M University

College Station, TX

Mary Kay O'Connor Process Safety Center

Research: **Leading Indicators Analysis for Offshore Operations with Emphasis on Drilling**

- Identify key causal factors and leading risk indicators divided into four categories – technical, operational, human and organization and system of organizations
- Construct algorithms and risk model relating the indicators with process elements

Advisor: **Dr. M. Sam Mannan**

Project Works:

Pipeline Incident Analysis and Path Forward- Analyzed pipeline incidents to identify key causes and impact, scope of risk assessment tools to minimize pipeline incidents; Studied the application of advanced technology to determine the future of pipeline risk mitigation

Development of Contractor PSM Competency Module- Study of current industrial practices and expectations for increasing contractor understanding on PSM; Working with a group of industrial experts to prioritize gaps and to determine forward plans

HFIT Question Set Evaluation- Studied Human Factors Analysis and Classification (HFACS) model and compared with other models; Evaluated the question set in several sessions with a team consisting of 5 graduate students, research scientist and industrial personnel

Develop Consequence Assessment Methodology for Arctic Pipelines- Reviewed PHMSA and other regulations for developing pipeline risk assessment methodology; Developed semi-quantitative risk model for arctic oil and gas pipelines considering several key parameters

Review of IChemE Lead Process Safety Metrics Guidance- Reviewed the proposed IChemE guidelines on selecting, tracking and learning lead process safety metrics

Ocean Energy Safety Research- Reviewed existing research efforts on offshore safety and prepared a comprehensive research portfolio with a team of graduate students and research scientists; Studied the industrial impact of BSEE's proposed Well Control Rule

Evaluation of Class 3 and Class 9 HAZMAT Materials in Transportation- Developed risk model for transportation of class 3 and class 9 hazardous materials

Training Materials Development- Prepared training materials on Management of Change and Process Safety Management

PROFESSIONAL EXPERIENCES <i>Cont'd</i>	<p><i>GasPlant Operations Specialist</i> Chevron Chevron Bangladesh Blocks Thirteen And Fourteen Ltd. Job scope: Process operations and production (Upstream)</p> <ul style="list-style-type: none"> ▪ Analyze & adjust plant parameters to optimize production ▪ Analyzed gas dehydration performance/absorption efficiency to maximize production ▪ Led and performed major jobs including high pressure separator cleaning, condensate tank modification, well surveillance, wellbore water handling, shutdown and startup ▪ Supported drilling, completion and well surveillance/slickline activities; worked with large group of contractors as operational representative/job-site approver ▪ Participated in Management of Change (MOC) process by raising Change Work Request (CWR), identifying process discrepancies & comparing with standards, assisting functional review process with data and information ▪ Reviewed critical operating procedures with risk assessment as a member of Operating Procedure Cross-functional Team ▪ Mentored trainee operations specialist on field and control room activities ▪ Updated and categorized Bypassing Critical Protection documents <p><i>OE(Operational Excellence)/HES Specialist</i> Chevron Bangladesh Drilling (Contract Position)</p> <ul style="list-style-type: none"> ▪ Ensured compliance with HES standard and expectation at drilling construction site ▪ Performed hazard analysis, site-check, and coordinated daily work permit meeting <p><i>Undergraduate Intern</i> Chevron Bangladesh Blocks Thirteen And Fourteen Ltd.</p> <ul style="list-style-type: none"> ▪ Calculated gas dehydration system modification requirements for increased production ▪ Determined erosional velocity in gas flare header 	<p>July 2010- August 2013 Bangladesh</p> <p>April 2010- June 2010 Bangladesh</p> <p>June 2008- July 2008 Bangladesh</p>
PERSONAL SKILLS	<p><i>Computational:</i> MATLAB, FORTRAN, Agenarisk, PHAST, BLHAZID <i>Process design and drawing:</i> HYSYS, MS Visio</p> <p><i>Risk Analysis Tools:</i> HAZOP, LOPA, Bayesian Network, Fault Tree/Event Tree, Bow-tie <i>Statistical:</i> JMP</p>	
PROFESSIONAL TRAINING & COURSES	<ul style="list-style-type: none"> ▪ “Gas Explosion Hazards in Offshore and Onshore Facilities”, Gexcon and MKOPSC ▪ “Fundamentals of Process Safety and Risk Management”, MKOPSC ▪ “What went wrong?”, MKOPSC ▪ Drilling Engineering ▪ Process Safety Engineering ▪ Quantitative Risk Analysis ▪ Chemical Kinetics & Reactor Design ▪ Transport Phenomena 	
LEADERSHIP	<ul style="list-style-type: none"> ▪ Mentored trainee operations specialist in Chevron on field and control room activities ▪ Site coordinator of Chevron Bangladesh XYZ Employee Network ▪ Chief Student Leader of TAMU Bangladesh Student Association 	
HONORS & AWARDS	<p>Academic-</p> <ul style="list-style-type: none"> ▪ Education Board Scholarship, Govt. of People’s Republic of Bangladesh ▪ University Dean’s Listed Student Scholarship and University Merit Scholarships <p>Professional-</p> <p>Recognition and Awards (R & A) for safe execution of major jobs –Slickline operations (2011), Plant Shutdown and maintenance (2011-12), HP Separator cleaning (2012), Filter replacement (2012), TEG replacement (2012), Condensate tank modification job (2013)</p>	<p>2005-2009</p> <p>2011-2013</p>
WORK AUTHORIZATION	<p>Eligible to work as an intern/co-op through Curricular Practical Training (CPT) (Visa Status: F1)</p>	