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| **Omale Joseph** |  |
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**PROFESSIONAL SUMMARY**

• Mechanical/material Engineer with strong background in failure analysis and process optimization.

• 5 plus years of experienced in steel microstructure and metallurgical analytical methods.

• 5 plus years of experienced in welding metallurgy and fit for service testing of welds in pipeline steel.

• Previous experience as a field engineer and project management.

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| **EDUCATION** |  |
| UNIVERSITY OF FEDERICTON NEW BRUSNKWICK, CANADA  Specialization: Innovative leadership  UNIVERSITY OF SASKATCHEWAN, SASKATOON, CANADA  Specialization: Materials Science | *Master of business administration / 2016- 2019*  *Master of Science / 2014- 2016* |
| UNIVERSITY OF ILORIN, ILORIN, NIGERIA | *Bachelor of Engineering / 2005- 2010* |

**WORK EXPERIENCE**

**University of Saskatchewan *Pipeline steel research laboratory / 2014 – Till date***

**Metallurgy**

 Extensive metallurgical laboratory R&D experience with extensive hands-on experience of metallurgical sample preparation, microstructure characterization and root-cause analysis of the role of microstructure on the failure analysis of steel in H2S environment.

5+ years hands-on metallurgical characterization techniques of X-ray Diffraction (XRD), Optical   
Microscope (OM), Scanning Electron Microscope (SEM), Energy-dispersive Spectroscopy (EDS) and   
Electron Back-scattering Diffraction (EBSD), etc.

 Strong understanding of steel making process, pipeline forming process, rolling and heat treatments.

 Extensive knowledge of welding metallurgy and method in pipeline steel.

**Corrosion (Electrochemistry)**

 Fundamental understanding of corrosion thermodynamics and investigation of the role of corrosion due to acidic environment in crack initiation and propagation in welded steel.

 Hands-on experience of cathodic charging, corrosion evaluation and failure analysis of parameters that drive crack initiation and propagation in oil and gas pipelines

 Investigated the role of corrosion in crack initiation and propagation in a spiral welded steel.

 Investigated the role of microstructure in pipeline susceptibility to hydrogen embrittlement.

**Materials Testing**

Hands-on experience of mechanical testing like tensile, compression, impact, bending, micro and

Macro-hardness, etc.

Expert in interpreting microstructural and fractographic images for determine different failure modes during tensile, torsion and impact testing of steels.

Experience of non-destructive testing like visual inspection, ultrasonic testing of welds in pipeline steel

Hands-on experience in residual stress mapping and measurement in pipeline welds

 Evaluation of the impact of welding residual stresses on welded pipeline performance during field installation

Root-cause analysis of failure in steel under different load conditions.

**FIELD ENGINEER** **J.Arvid Engineering Ltd */2010-2014***

Project monitoring and evaluation using bench marked indicators.

Performed on-site field surveys and wrote technical narratives on project progress in an efficient and timely manner.

Interacted with project leaders and stakeholders to define requirements, generate and maintain design development.

 Assisted in preparing and review of bids for new clients.

**SKILLS**

 Extensive experience in operation and maintenance of Secondary electron microscopy (SEM) electron backscattered diffraction (EBSD) and X-ray diffraction (XRD). 

 Strong knowledge Visco-plastic Self Consistent (VPSC) software in used in steel manufacturing.

 Strong knowledge Comsol Multiphysics software for stress mapping

 Extensive experience in interpretation of steel microstructures.

 Knowledge of different destructive testing such as impact, tensile and torsion.

 Strong familiarity with API, NACE, ASME, ASTM and AWS/CWB codes

 Strong knowledge of different non-destructive testing techniques and quality assurance.

 Strong organizational skills with keen attention to details

 Good communication skill in English.

 Innovative self-starter and excellent adaptability to new challenges.

 Ability to manage projects in accordance with projects specifications.

 Good inter-personal and communication skills.

 Team work as leader or follower.

**TRAININGS AND LEADERSHIP ROLES**

**Treasurer/Secretary:** American Welding Society (AWS) Saskatchewan chapter (2015-date). *Oversee financial decision of the entire chapter and preparing of yearly up to date financial spending of the chapter with headquarter.*

**President**: National Association of Mechanical Engineering Students (2009-2010). *Oversee the affairs of 500 plus mechanical engineering students by communicating their needs with the department leaders in ways that promote trust and good working relationship between university and students.*

**Program Chair**: National Society of Black Engineers (2008-2009). *Responsible for the development and structure of events for the association*

**Global Leadership Academy** (**University of Pittsburgh).** *Provide mentoring role for younger Members of the Hesselbein leadership academy.*

**Project Management Professional** (Certificate for field engineers 2011). *Trainings on project initiating, planning, execution, control and closing*

**Transform X Leading Right** (2011) Effective Communication Skills in work environment

**ACADEMIC HONORS AND AWARDS**

 College of Engineering devolve scholarship (2016 – 2019). *This award goes to the most promising graduate students with stellar academic record and research potential.* *1 of 4 recipients in the department of Mechanical Engineering.*

 Engineering graduate research fellowship (2015 – 2016). *This award goes to the most promising graduate students with stellar academic record and research potential.* *1 of 2 recipients in the department of Mechanical Engineering.*

Hesselbein global leadership academy (University of Pittsburgh, 2015). *This award goes to the most promising graduate students with stellar academic record and leadership potential.* *1 of 50 recipients from a pool of over 5000 applicants around the world.*

Russell (Russ) William Haid Memorial Awards for excellence in academics and research (2015). *1 of 4 recipients in the college of Engineering.*

John Spencer Middleton and Jack Spencer Gordon Middleton Scholarship (2015). *Only recipient in college of Engineering.*

 Ivan and Margaret Toutloff scholarship (2016). 1 of 8 *recipients in the University.*

Jadeas scholarship award, Ibadan, Nigeria (2007-2010).*This award covered tuition, accommodation and feeding for my bachelor’s degree program. 1 of 10 recipients from the national applicants.*