CURRICULUM VITAE

**PERSONAL DETAILS**

**Full Name:** Philip Sereako Imonzing

**Gender:** Male **D.O.B:** 29th April 1989

**Province of Originality:** Morobe **Nationality:** Papua New Guinean

**Marital Status:** Defacto **Religion:** Roman Catholic

**Current Address:** Philip Imonzing

Barrick Niugini Limited

P.O Box 484, Mt.Hagen, Western Highlands Province

Papua New Guinea, 281

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**CAREER OBJECTIVE**

To seek a challenging and uncharted role that could bring out my Reliability Engineering, Condition Monitoring and Maintenance knowledge that I have acquired over the last 5 years of my career.

**PROFESSIONAL WORK EXPERIENCE**

**July 2016 – Present Barrick Niugini, Porgera Mine Ltd, Enga**

Attached with **Asset Management and Infrastructure Department** as a **Reliability/Condition Monitoring Engineer** and reporting to the Reliability Superintendent with the following responsibilities;

* Facilitating Apollo Root Cause Analysis on Failures of production Equipment
* Working On Defect Elimination Project
* Production equipment Improvement Projects
* Reviewing of Work Orders and Updating new PMs to address new production problems using the Oracle® CMMS.
* Provide Technical assistance to Plant Metallurgists and Operations on fine tuning and continuous improvement of process parameters.
* Conducting Condition Monitoring Techniques; Oil Analysis, Vibration Collection/Analysis and thermography on all fixed plant equipment and mobile equipment using **ISO 4406**, **AS 18016: AS 2625**, **AS 18434: 1 2014** and **NEMA** standards
* Conducting NDT for defects assessment as per Australian Standards **AS 3978, AS2452.3, AS117-1998, AS 2062-1997, ASTM E1417** and **AS1554**
* Assisting in Quality and statutory compliance checks on equipment during the Plant Shut down Maintenance on Mills, Concentrator Flotation Banks and Autoclaves.
* Planning of Weekly Preventative Maintenance schedules and to ensure compliance.
* Monitoring of Haul Mine Trucks and logging alarm events using the Mine Care Software made by Modular
* Statutory Inspections on Boilers, Tanks, Pressure Vessels and Cranes as per **AS 1210**, **AS 4343**, **AS3788**, **API 650-653**, and **AS 1418**
* Precision Alignment using Fixture Laser ® and dial gauge alignment checks on Equipment Drives of Production equipment
* Condition Monitoring Techniques on Mobile Fleet Equipment including Wear Debris analysis, Oil Analysis, Mag Plug inspections, coolant inspections and other structural integrity inspections.

**March 2016 – June 2016 Pacific Technologies Ltd, Port. Moresby, PNG**

Reporting to the **Manager Asia Pacific region** as an **Installation Engineer** with the following responsibilities;

* Installation and commissioning of ultrasonic flow meters for clients as per request
* Involved in sales and marketing with the impending clients and potential vendors

**February 2015 – August 2015 OK TEDI MINING Ltd, Tabubil, WP, PNG**

Attached with **Mill Maintenance Planning** team as Graduate Engineer with the following responsibilities;

* Master Data cleansing of Equipment Bill of Materials (BOM) and Critical Spares from Ellipse to SAP software system
* Bill of Material and Critical Spares Build up for newly commissioned equipment (s) for SAP import.
* Work Order Initiation and Closure of all Weekly Maintenance Tasks and Shut downs in the fixed Plant maintenance arena using Ellipse and SAP.

**November 2014 – February 2015 OK TEDI MINING Ltd, Tabubil, WP**

Attached with **Reliability Engineering** team as Graduate Engineer with the following responsibilities;

* Analysis and review of Downtime data of SAG and Ball Mills and other Mill production equipment using existing Downtime Data Base.
* Participating actively in Root Cause Analysis (RCA) sessions (including 5 whys) and using the APOLLO RCA method on failures of production equipment.
* Assisting in applying Reliability Centered Maintenance (RCM) in production equipment.
* Initiating the Creation & entering of Maintenance Scheduling Tasks (MSTs) & Applications Parts list (APLs) / Bill of Materials for production equipment
* Create & issue Work Orders for Planned Preventive, Planned Corrective and breakdown (unplanned) tasks.
* Accomplishments include standardizing all Flocculants dosing pumps for thickener aeration system along with setting up their Bills of Materials on the SAP system for inventory purposes and to create ease in parts availability.

**October 2014 –January 2015 OK TEDI MINING Ltd, Tabubil, WP**

Providing assistance to the **SAP software Project Mill Maintenance Planning** team as Graduate Engineer with the following responsibilities;

* SAP software Master Database Equipment Data Collection- Crusher, Grinding and Flotation
* Data Cleansing on Ellipse Registered Plant Equipment before being imported to SAP Master data

**June 2014 – October 2014 OK TEDI MINING Ltd, Tabubil, WP**

Attached with **Crusher Production and Maintenance** team as Graduate Mechanical Engineer with the following responsibilities;

* Contractor Management and Documentation
* Project Documentation which included; Work Breakdown Structures (WBS) using MS Project, Scope of Works, Cost Estimates & Safety Documentation
* Writing up AFES for Capital Expenditures on New proposed equipment.
* Research and Design using Australian and PNG standards.
* Material Procurement and listing
* Construction (Fabrication) and Commissioning
* Contract Supervision
* Sending in work Request for Fabrication of materials to Planners using Ellipse®
* Engineering Drawing using AutoCAD

**February 2014-June 2014 OK TEDI MINING Ltd, Tabubil, WP**

Attached with **Mill Maintenance** **Condition Monitoring** team as Graduate Mechanical Engineer with the following responsibilities;

* Use of Computerized Maintenance Management System Ellipse® to close off work orders and raise work request to planners
* Carrying out NDT inspections namely, Ultrasonic Testing (UT), Magnetic Particle Inspections (MPI), Dye Penetrant Inspection (DPI) for material wears and defects assessment as per **AS 2452.3, AS117, AS 3978** and **ASTM E1417.**
* Conducting Infrared Thermography Inspections on various rotating mechanical equipment, electrical switchgears, high voltage transformers and Transmission lines as per **AS 18434** and **NEMA standards**.
* Doing Scheduled Oil Sampling Techniques on all plant Equipment.
* Vibration Data Collection (*using Rockwell Entek DataPac1500* and CSI 2140) and Analysis (*using Emonitor Odyssey Version 3.4 Software Package and CSI MHM software*) conforming to ISO 10816
* Carrying out Inspections & Audits on Classified Plant OTML especially Cranes
* Conducted Precision Laser Alignment, using Pruftechnik Rotalign®PRO and fixture laser, on SAG mill Feeder Pumps, Crusher Drive and other different plant drive configurations
* Mill Pinion and girth gear profiling in the Grinding and Flotation Circuit
* Grinding and Flotation CM standard shutdown jobs
* Accomplishments include motor-gear-box-pump alignment and commissioning of the Krebs cyclone feeder pump 20/18 pump in Grinding area and UT inspection of leach Tank 10 that prompted immediate repairs on structures.

**November 2013-February 2014 OK TEDI MINING Ltd, Tabubil, WP**

Attached with **Mill Mechanical Maintenance** team as Graduate Mechanical Engineer exposed to the following;

* Rebuilding of Centrifugal Pumps, Gearboxes, Grizzlies (Screening Plant) and Equipment bearings
* Conducting Preventive Maintenance Procedures on all Outstation equipment such as water pumps, Compressors and engines
* Rebuilding of hydraulic equipment

**July 2013-November 2013 OK TEDI MINING Ltd, Tabubil, WP**

Attached with **Crusher Production and Maintenance** team as Graduate Mechanical Engineer with the following responsibilities;

* Shutdown (overhaul) documentation
* Doing up Condition Monitoring Inspection reports after Inspection
* Using Ellipse to Review and Update Application Parts List (APLs) for Crushing and Conveying Systems
* Assisting in Drafting Plant improvement ideas
* Drafting and Reviewing safety documents
* Contractor Supervision and Management
* Key Achievement was being involved in the conceptual design and fabrication to commissioning of a by-pass tray for trucks to pick boulders from the screening plant to make by pass run to maintain utilization of the SAG Mills during a major overhaul of the crusher.

**March 2013-July 2013 OK TEDI MINING Ltd, Tabubil, WP**

Attached with **Power Services** Department as **Graduate Mechanical Engineer** with the following responsibilities;

* Involved in planned Preventive, Corrective and Breakdown Maintenance of Wartsilla, Mirlees and CAT Engines.
* Major 12000 hours overhaul on the Wartsilla V32 Engine (5.2 MW)
* Major Overhaul of Unit 2 Francis Reaction Turbine (30MW) at Ok Menga Hydro power station. Involved in the Maintenance and Documentation of the Shutdown.
* The key achievement while at Power services was facilitating an Apollo RCA on the Wartsilla (GW 10) Diesel Engine Lubrication System Contamination. Problem identified and recommended solutions were implemented.

**November 2011-February 2012 BRITISH AMERICAN TOBBACO Ltd, Madang**

Attached with **Site Engineering Services** Department as Trainee Mechanical Engineer with the following responsibilities;

* Doing Plant Maintenance on Production Equipment and Auxiliary Support Equipment and Utilities like gensets, sewerage tanks and compressors
* Maintenance Planning and Review and Updating of Plant Assets
* Electrical, Low Voltage Supply Maintenance
* Documentation of maintenance procedures

**EDUCATIONAL BACKGROUND & TRAINING**

**2017 December Mine Care Software Training Porgera, Enga**

**(Modular Mining Systems)**

**2017 November Apollo Root Cause Analysis Participants Training Porgera, Enga**

**(Arms Reliability)**

**2017 October Shell Oil Analysis Training Porgera, Enga**

**2017 August ISO Vibration Analysis CAT2 Training Perth, Australia**

**(Mobius and Vibration Institute Australia)**

**2016 July Apollo Root Cause Analysis Training Porgera, Enga**

**(Arms Reliability)**

**2015 July SAP Manage Physical Assets Tabubil, W.P**

**(SAP & WIPRO)**

**2014 December Business Writing Skills Tabubil, W.P**

**(Australian Institute of Management)**

**2014 November Thermography Level 1 Tabubil, W.P**

**(Industrial Precision Instruments)**

**2014 October Shaft Laser and Precision Alignment Training Tabubil, W.P**

**(Fixture Laser Australia)**

**2014 September Powerful Presentation Tabubil, W.P**

**(Australian Institute of Management)**

**2014 June CSI2140 Vibration Analysis Machinery- Database Build up Tabubil, W.P**

**(Emerson)**

**2009- 2012 Bachelor of Engineering in Mechanical Engineering Lae, M.P (PNG University of Technology)**

* Completed my Final Year in Bachelors’ Degree Program in Mechanical Engineering.
* Graduated in April 2013
* IEPNG Graduate Member since 2013

**TECHNICAL SKILLS & COMPETENCIES**

* Well versed with the with Ore Production Downstream processes
* Well versed with the work management process in the maintenance arena.
* Fair knowledge on Reliability concepts in particular Defect Elimination, RCM, FMECA, RCM and PM optimization.
* Competent use of Condition Monitoring equipment and software, calibration of UT machine
* Familiarized with NDT methods of Dye Penetrant Inspection (crack test), Magnetic Particle Inspection and Ultrasonic Testing,
* Certified ISO Category 2 Vibration Analyst and proficient in Vibration Analyst Database Building
* Comprehensive understand of Apollo Method in conducting Root Cause Analysis.
* Competent in Microsoft Office 2010 Word, Excel, PowerPoint, Project, Outlook
* Certificates of Attainment for MS Office 2010 Excel & Project
* Understanding of Mechanical, Civil, Electrical & Structural drawings
* Excellent Communication Skills both written and oral
* Competent use of Ellipse and Oracle (CMMS)
* Familiar with the use of Auto-Cad
* Familiar with the Mine Care Modular Software
* Familiarized with Power Generation, Transmission and Distribution.

**OCCUPATIONAL HEALTH AND SAFETY TRAININGS**

* Authorized User (U) of LOTO work procedures
* Confine Space Permit User (AR)
* Work at Heights Permit
* Working with Cyanide Equipment permit

**INTERESTS**

* Asset Management
* Reliability (Precision) Engineering
* Reading

**REFEREES**

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| --- | --- |
| **Mr. Ian Kaisom**  Reliability Engineering Supervisor  BSC (AP), CMRP  Maintenance Technical Services  Asset Management & Infrastructure Department  Barrick Niugini Limited  P.O Box 484,  Mt.Hagen, Western Highlands Province  Papua New Guinea  Ph: (675) 547 4057    Email: [ikaisom@porgerajv.com](mailto:ikaisom@porgerajv.com) | **Mr. Raphael Vigil**  Senior Reliability Engineer BE(Elect)  Morobe Mining Joint Venture  PO Box 4015  Lae 411  Morobe Province  Papua New Guinea Ph.: (+675)70322425  Email: [raphael.vigil@mmjv.com](mailto:raphael.vigil@mmjv.com) |
| **Miss Lorraine Balepai**  Acting Planning Superintendent**,** AMIMechE  Mill Maintenance Processing Dept.  Ok Tedi Mining Limited  PO Box 1  Tabubil  Western Province 332  Papua New Guinea  Ph.: (+675) 649 3440  Email: [Lorraine.Balepai@oktedi.com](mailto:Lorraine.Balepai@oktedi.com) |  |