

## **CURRICULUM VITAE**

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### **QUALIFICATIONS PROFILE**

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- Highly qualified and technically proficient professional with experience in quality management systems, combined with strong technical and administrative abilities to ensure the integrity of the laboratory's functions.
- Organised and analytical with exceptional attention to detail, time management, and error reduction skills, along with the ability to handle multiple competing priorities.
- Accurate, reliable and focused on timely, quality completion of all laboratory procedures; capable of working under pressure and the constraints within high-volume environments
- Excel in team work, leadership and trainer capabilities
- Demonstrate strong interpersonal relationship skills and excellent ability to work well with others

### **ACADEMIC QUALIFICATIONS**

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#### **Master of Science in Chemistry (2014)**

Jomo Kenyatta University of Agriculture and Technology

Published in a peer reviewed scientific journal research paper titled:  
*'Evaluation of repellent effects of oils from selected Eucalyptus species against Sitophilus zeamais (Motschulsky)'*

#### **Bachelor of Science, Industrial Chemistry (2010)**

Jomo Kenyatta University of Agriculture and Technology

*Second Class Upper Honours*

#### **Kenya Certificate of Secondary Education (2005)**

The Kenya High School

*Grade: B plus*

## **WORK EXPERIENCE**

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### **Quality Assurance Manager – Quality Assurance (*October 2018 – Present*) *Pwani Oil Products Limited.***

#### **Responsibilities:**

- Regulatory and statutory compliance in accordance with annual schedule; Keeping up to date with regulatory requirements and advising management on changes to be implemented
- QMS conformance and process flow mapping by developing, enforcing and validation of standard operating procedures; auditing of processes against ISO 22716:2017.
- Preparation of all products' formulations, specifications and issuance to production departments; as well as annual reviews.
- Ensuring compliance and approval of all Raw materials (oils), packaging materials and chemicals.
- Customer Management – Service Standards, Feedback & Complaints handling.
- Supplier Management by specifying quality requirements and scheduling audits.
- Monthly quality reports to management summarising information and trends, including failed processes, stability studies, recalls, and re-validations.
- Approval for release of finished goods
- Preparing Quality Department annual budgets, scheduling expenditures, analysing variance and initiating corrective actions.
- New Product Development – in engineering process designs, formulations and offering research and technical support.
- Personnel Management

### **Quality Assurance Department Executive – Quality Control & Laboratory Management (*May 2016 – September 2018*)**

### ***Pwani Oil Products Limited.***

Responsibilities include:

- Supervision, monitoring and validation of all laboratory analysis to ensure conformance to regulatory and company requirements and specifications.
- Laboratory test methods development and validation to ensure they are fit for purpose and ensure accurate and repeatable results.
- Planning for all laboratory resources and ensuring availability of required chemicals and equipment at all times.
- Collaborating with other department and production team heads in process control integration and root cause analysis.
- Laboratory technicians training and performance evaluation.
- Participating in internal audits
- Ensuring laboratory efficiency by coordinating maintenance and calibration of chromatography machines and other analytical equipment, as well as inventory and monthly requisitions
- Preparing monthly reports detailing department's expenditure, performance trends, quality non conformances and customer complaints with follow up investigations
- Member of Environmental, Health and Safety committee to ensure compliance with safety regulations in the laboratory and the production floor.

### **Quality Assurance, Assistant Executive – Instrumentation and Research & Development (July 2014 – May 2016)**

#### ***Pwani Oil Products Limited.***

- Ensured all incoming raw materials and chemicals, as well as process intermediates conformed to company specifications from the offloading procedures to confirmation of quality by bench analysis and physical properties testing.
- Performed fatty acid chain analysis and characterization using Gas Chromatography (G.C.) on raw materials, intermediates as well as extracts from finished goods.
- Performed High Performance Liquid Chromatography (HPLC) on Tocotrienols and Tocopherols (Vitamin E) concentrates, while serving as the Principal Quality Technologist for the Vitamin E production plant.
- Preventive maintenance of HPLC and GC machines
- Research and Development in Laboratory testing of all pilot projects

- Liaised with Health and Safety Department to ensure adherence of safety procedures in the laboratory, ensuring use and procurement of Personal Protection Equipment (PPEs)

### **Intern - Research and Development**

***Unilever Kenya Limited (January 2009 – March 2009)***

Gained experience in the manufacturing processes and analytical aspects of basic household goods produced by the company as covered in the Industrial Chemistry course work.

Carried out a project which entailed studying the process specifications and parameters for the production of margarine.

Worked as part of the R&D team on projects involved in the innovation, introduction and improvement of products; participated in the new margarine product Blue Band Spread for Bread. I was able to participate in the creation of the first stable low fat spread.

### **Kenya Wine Agencies Limited (K.W.A.L)**

**February 2008 – April 2008:**

- Attachment program for two months, during which I had an opportunity to learn various processing procedures in the Winery Department, Quality Assurance Department and Packaging Department.
- Gained experience using chemistry methods including titrations, pH and laboratory analyses.

## **RESEARCH EXPERIENCE**

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**2011 -2013: Graduate Student,** Department of Chemistry, JKUAT

### **Repellent Botanicals**

- Characterized bioactive constituents in the essential oils of selected Eucalyptus species for use in *Sitophilus zeamais* (maize weevil) control using Gas Chromatography and combined Gas Chromatography – Mass spectrometry (GC-MS)
- Carried out bioassay tests against the maize weevils using the bioactive constituents
- Demonstrated possibility of use of these botanicals in integrated pest management

- 2009: Undergraduate Research**, Department of Chemistry, JKUAT
- **Polymer Chemistry**
  - Extracted Cashew nut shell liquid (CNSL) from cashew nut shells and characterized it using Fourier Transform Infrared (FTIR) spectroscopy
  - Developed a coating based on maleic anhydride modified cashew nut shell liquid

## AWARDS

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- Postgraduate Scholarship: Awarded by the Higher Education Loans Board (HELB)
- National Scholarship: Awarded by the World Federation of Scientists (WFS) National Scholarship Programme.

## RESEARCH INTERESTS

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- Plant pest management: Control measures of post-harvest pests
- Botanicals: The use of botanical products in pest management

## CONFERENCES

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- The First International Conference on Pesticidal Plants, held on 21<sup>st</sup> - 24<sup>th</sup> January 2013 at the International Centre of Insect Physiology and Ecology (ICIPE): presented on the 'Repellent activity of the oils from selected Eucalyptus species against the maize weevils'.

## PUBLICATIONS

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- Cambridge Journals; International Journal of Tropical Insect Science, Volume 33, Issue 03, pp. 188-194: Repellent effects of essential oils from selected eucalyptus species and their major constituents against *Sitophilus zeamais* (Coleoptera: Curculionidae)

## I.T. SKILLS

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- Proficient in Microsoft Office and other Basic Computer Applications

## **TRAINING**

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- Occupational Health and Safety Training
- Fire Safety Training

## **COMMUNITY ACTIVITIES**

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- Mentorship; Involved in running a Christian program (Sangreal Group coordinator) targeting high school leavers within Kahawa Sukari Estate.
- Volunteer at the Crossroads Fellowship Youth Ministry

## **REFEREES**

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Mr Graig Asega  
Human Resource Senior Manager  
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