

# Jimson Itai Tanyanyiwa

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Languages Spoken: English, Ndebele, and Shona

Nationality: Zimbabwean

Date of Birth: 10 April 1989

Age: 27

Passport Number: EN 177609

National I.D Number: 08-2109376-W04

Driver's License Number: 106424 DG (Class 4)

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## *Professional Skills*

**Programming languages:** C, and Visual Basic

**Engineering software packages:** Polymath, Aspen

## *Education*

**Ongoing:** Master of Science in Chemical Engineering with the Pollution Research Group at the University of KwaZulu Natal.

Project title: Co-digestion of industrial and domestic wastewater

Objectives: eThekweni Water and Sanitation (EWS) have built of 2ML co-digestion anaerobic digester and associated tank work for accepting and blending concentrated industrial wastewater with domestic sludge. The project objectives are; Evaluating the impact of the concentrated effluent on the operation of the digester, Conducting laboratory experiments (both on a bench top and pilot scale) and Modelling of the results

**2009-2014**

**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY (NUST Zimbabwe)**

Upper Second Class (2.1) Bachelor of Engineering Honors Degree in Chemical Engineering

## *Academic projects*

2011 – 2012: Use of Fly Ash as a substitute for Cement in Concrete

2012 – 2013: Opportunities for Reduction of Wort Collection time at Delta Beverages Belmont Plant

2013 – 2014: Use of Boiler Ash to Soften Boiler Feed Water

20.13 – 2014 Design Project: Design of a plant producing 97% Bio-methane and Bio-fertilizer from Municipality Solid Waste for Mutare City

## **2007-2008**

Mpopoma High School.

GCE Advanced Level Zimbabwe School Examinations Council (ZIMSEC) Attained the following grades in the following subjects: Grade A in Mathematics, B in Chemistry and A in Physics at

## **2003-2006**

John Tallach High School

Zimbabwe General Certificate of Education at Ordinary Level.

Passed nine subjects including an A for Mathematics and A for English language

## *Work Experience*

### **Delta Beverages Belmont Plant, Quality Assurance Department Packaging Lab (July 2014 – December 2014)**

#### Roles and Duties

- Checking detergent strength at the bottle washer.
- Checking detergent carryover at the bottle washer
- Checking pasteurizer zonal temperatures
- Laboratory instrument verification
- Checking carbon dioxide purity
- Checking Beer haze
- Making sure that all records are kept according to ISO 22000 standards

### **Delta Beverages Belmont Plant, Brewing Department (November 2012 – July 2013)**

#### Roles and Duties

- Launching and running Autonomous Maintenance for brewing Department.
- Assisting Brewing manager in Scheduling Brews for each week.
- Optimizing filtration of Mature Beer for Bright Beer Production
- Assisting in optimization of Glycol refrigeration system.

### **John Tallach Secondary School Science Department (September 2015- July 2016)**

#### Roles and Duties:

- Teaching Form 4 Integrated Science and Chemistry

## **Leadership Roles**

Current leadership roles:

1. Secretary of Nust Chemical Engineering Society
2. Class Representative for Final Year Chemical Engineering Class

## *References*

### **Packaging Manager: Mthulisi Nyoni**

Delta Beverages Belmont Plant

16 Lemmington Road

P. O Box 8200

Bulawayo

Tel: +263712623770

Email: [m.nyoni@delta.co.zw](mailto:m.nyoni@delta.co.zw)

### **The Chairlady: Miss Siboniwe Bhebhe**

Department of Chemical Engineering

National University Of Science and Technology

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### **Prof CA Buckley**

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