

**CURRICULUM VITAE
OF
IPELENG LABIUS**

PERSONAL DETAILS

First Names : Ipeleng Labius
Surname : Machele
ID Number : 9305176088080
Date of Birth : 17 May 1993
Gender : Male
Marital Status : Single
Residential Address : 3132 Unit 9
Ga-Rankuwa
Pretoria
0208
Postal Email address : macheleil17@gmail.com
Cell Number : 061 255 8713/076 6873861
Nationality : South African
Home language : Tswana (Speak, Read, Write)
Other Languages : English (Speak, Read, Write)
: Zulu (Speak, Read, Write)

Drivers Licence : code C1 (with own transport)

FORMAL EDUCATION

Highest Grade Passed : Grade 12
School Attended : Modiri Secondary School
Year Obtained : 2010

POST SECONDARY QUALIFICATION

Tshwane University of Technology:

1. Qualification Obtained : National Diploma in Computer Systems Engineering

Majored in the following modules:

- Digital Systems I,II,III
- Mathematics I,II,III
- Logic design III
- C++ programming I, II , III
- Digital Process Control I,II,III
- System analysis I,II
- Electronics I ,II

2. Qualification Obtained : BTECH in Computer Systems Engineering

Majored in the following modules:

- Database Programming (PSQL/SQL) and Database Administration.
- Engineering Mathematics 4.
- Hardware Design.
- Digital Process Control (PLC Programming & SCADA systems).
- Project Management.
- New Technology Programming (IoT and Disruptive technology)
- Software systems (Software engineering)

- Industrial project (Smart Electricity Meter)

3. Qualification in Progress: Master of Computing in Computer Systems Engineering

Research Area:

Internet of Things and Smart Environments for optimisation of concrete mixture design in the Construction industry.

Doing a research on IoT (internet of things) and Smart environments for the construction industry with regards to the development high performance concrete utilizing IoT technology. How will the introduction of disruptive technology be of assistance in the construction industry with regards to the adoption of the IoT technology as well as how disruptive technology will disrupt the traditional approaches of concrete design? How will Modelling and optimization techniques be of assistance in the mixture of concrete design? How will the adoption of IoT and environments technologies optimize as well as automate the concrete mixture design in the construction industry.

WORK EXPERIENCE

1. Current Employer : Tshwane University of Technology

- **DIVISION** : Computer Systems Engineering
- **Role** : Lecture
- **Duration of Employment** : Jan 2018 till Present

Duties:

- Lecturing electrical engineering I as subjects
- Lecturing DPCII (Digital Process Control II).
- Lecturing DSYIII (Digital Systems III).
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2. Current Employer : Tshwane University of Technology

- **DIVISION** : Computer Systems Engineering
- **Role** : Part-time IOT and Innovation Researcher
- **Duration of Employment** : Jan 2018 till Present

Duties:

- Developing IOT innovations and Native Applications
- Developing progressive webApps Applications using ThingWorx platform.
- Developing Backend system for Computer Engineering department to be interfaced with IOT driven Front End Solutions.

3. Previous Employer: Huawei Technologies

- **DIVISION** : Transmission
- **Role** : Junior Engineer in Systems Development, Design and Configuration
- **Duration of Employment** : August 2015 till December 2017

Duties:

- Developing IOT Project to link with smart racks for monitoring and analysis on Huawei systems and their racks.
- Developing firewalls for client networking to improve their network security.
- Developing software of ATN90X series router and configuration scripts using shell scripting.
- Contribute towards integration of backend services to make sure that we are delivering good user experience that's fast and responsive for end users.

4. Previous Employer: Sabertek cc

- **DIVISION** : Design and Implementation
- **Role** : Junior System Engineer/Developer
- **Duration of Employment** : January 2014 till July 2015

Duties:

- Systems Development and Analysis(.Net and Java)
- Develop ICT technical and functional specifications for implementation
- Developing Siemens PLC SCADA system
- Assist with the implementation, security and operationalization of ICT systems
- PCB Maintenance and Repairs
- Embedded Systems.
- Designing Jigs , PCB
- Fault Finding
- Administer, update patch management process and deployment(application and system patches), in accordance with related deployment and approved recommended update schedules
- Support Operational Control processes (Audits, Risks, DR, BCM, Process Improvements, Performance management and Business management), supply requested information and implement corrective actions as applicable.
- Resolve incidents and problems related to responsibility in line with SLA's
- Monitor ICT infrastructure/networks and service continuously and report deficiencies on capacity, availability, integrity/security and continuity
- Diagnosing and resolving a wide range of technical issues over the phone.

5. Previous Employer

: Tshwane University of Technology

Position

: Assistant Lecturer

Period of Employment

: February 2012- November 2013

Duties Includes

- Conducting tutorial classes
- Marking of scripts
- Working as a lab assistance
- Help conduct practical sessions for c# and c++
- Help in Troubleshooting and Interfacing hardware and hardware Together

CAREER OBJECTIVES

To secure a rewarding and challenging position utilizing my knowledge and determination, in which i can offer total dedication and hard work to assist my employer in achieving their goals.

SKILLS AND ABILLITIES

- Leadership and team work abilities
- Superior Communication Skills
- Meticulous in execution of tasks
- Ability to collaborate with a team of developers with varying skills and still deliver.
- Desire to research and learn Emerging technologies

Technical Skills and Professional Experience

Skills Matrix Legend:

1. Limited Practical
2. Thorough Practical
3. Extensive Practical
4. Specialist Skills

Professional Skills/ Technologies Used	Months Experience	Level
Native App Development		
Java / Android SDK	24	3
C# / Xamarin / Android SDK	36	4
C# / Xamarin / iOS SDK	36	4
Objective C for iOS	12	3
Swift	12	3
Hybrid App Development		
HTML5	36	3
CSS3	36	3
Javascript	36	3
Ajax	5	3
jQuery	18	3
Cordova / Phonegap	18	3
App UI Frameworks like jQueryMobile, Ionic, Onsen UI, AppZillion etc.	12	3
Web Applications		
ASP.NET Web Forms	24	3
ASP.NET MVC	24	3
XML Web Services	24	3
WCF Services	18	3
Client/Desktop Applications		

Java(Spring boot, Hibernate, JPA, Jasper reporting)	12	3
MVVM	12	4
Windows Forms	24	4
Windows Services	8	4
Programmable Logic Controller		
Ladder Programming	24	3
Functional Block Programming	24	3
SFP	24	3
SCADA Systems	24	3

PORTFOLIO

For my portfolio and some of the personal projects I have worked on, Please see my Github profile on the following link: <https://github.com/steddyfresh>

PERSONAL INTEREST AND HOBBIES

Sports : Soccer, Cricket and
 Reading : Books (Leadership, Science and Technology magazines)
 General : Playing with various micro controllers
 Music : House, Jazz and more
 Videos : Elon Musk, Tony Robbins, Les Brown and more

REFERENCES

Institution	Contact Person	Position	Contact Details
1. Tshwane University of Technology	Mr P.T Motshwene	Training Administrator/ Mentor	T: (012) 382 9828 C: 082 787 4248 E: motshwenept@tut.ac.za
2. Sabertek cc	Mr N.R Hlungwani	Mentor/Testing dept. Manager	C: (081) 586 8166 E: real@Sabertek.co.za
3. Huawei technologies	Mr T.C Muvhango	ROM(Roll out manager)/ Mentor	C: (082) 674 5300 E: tshepo.muvhango@huawei.com