



TINOTENDA CHEMVURA

ELECTRICAL AND COMPUTER ENGINEERING

📞 +27-74-487-3158
✉ ttchemvura@gmail.com
🌐 https://tino1b2be.com
📍 Forest Hill UCT
Mowbray, Cape Town



BIO

- Fluent in English, Shona
 - Good leadership skills
 - Fertile mind
- Part-time photographer
 - Mentor
 - Blogger



WORK EXPERIENCE

PRAEKELT.ORG

Dec 2016 & Feb 2017

ELECTRUM PAYMENTS

June 2016 - July 2016

VASTECH

Dec 2015 - Jan 2016

DERIVCO

June 2015 - July 2015

UNIVERSITY OF CAPE TOWN

Feb 2015 - present

GLENDOWER RESIDENCE, UCT

Feb 2016 - Nov 2016



LEADERSHIP EXPERIENCE

UNIVERSITY OF CAPE TOWN

Jan 2015 - Mar 2016

UNIVERSITY OF CAPE TOWN

Aug 2014 - Sep 2015

UNIVERSITY OF CAPE TOWN

Aug 2014 - Sep 2015

I am a final year Elec. & Comp Engineering student at UCT who is consistently setting goals to grow themselves while always striving for perfection in everything I do. I have always loved working with computers and cutting edge technologies which explains why how I ended up with this degree I'm studying. During my time at UCT, I have developed interests in Software Engineering, Embedded Systems and Digital Signal Processing. I have a deep love for Photography; a hobby which I took up in 2015 when I bought my first entry level DSLR camera and have been clicking away ever since, trying to immortalise the world before me.

SRE Intern

Some of the work I included research on Swift Object Storage. I was also tasked with adding features to their MC2 Control Panel to communicate with Mesosphere and periodically update apps managed by MC2. I also worked with Django, Docker Volume Plugins and Python.

Back-End Developer Intern

I worked on some of their back-end system to implement new features. I developed a better understanding of how the payments industry worked and gained some experience with Docker, Google Proto-Buffers, RabbitMQ and Docker.

DSP Engineering Intern

I worked on a project to design and implement a DTMF decoder in Java. I developed a good understanding of digital signal processing and MatLab (which I used for prototyping). More details on this project can be found on this web page: tino1b2be.com/dtmf-decoder

Software Engineering Intern

This was my first internship. I joined the Mathematics department where assigned two tasks where I worked with MsSQL, ActionScript3 and C#. I also did some work involving mathematics modelling and also using a lot of probability and statistics.

Computer Science Tutor

I have been a tutor for Computer Science first and second year courses for the Department of Computer Science at University of Cape Town.

SFDA (Receptionist)

I was a Student Front Desk Assistant (a receptionist) for Glendower Residence, UCT.

Orientation Leader

I was an orientation leader for Semester Study Abroad students and also first year Engineering students in my second and third year of studies at the University of Cape Town.

I.T Representative

I was elected, by residents of Glendower Residence, to be part of their House Committee as the I.T Representative.

I.T Forum Chairperson

I was elected by the IT Forum (made up of IT Representative from all 1st and 2nd Tier UCT Residences) to be their chairperson for the 2014-15 term.



EDUCATION

UNIVERSITY OF CAPE TOWN

2014 - present

HILLCREST COLLEGE, ZW

2013

HOME SCHOOLING

2013



AWARDS

UNIVERSITY OF CAPE TOWN

GLENDOWER RESIDENCE, UCT

HILLCREST COLLEGE, ZW

Bsc. Eng Electrical and Computer Engineering

I am currently in my final year of study and my cumulative GPA is sitting at 76.94. I have been on the Dean's Merit List for each year of my studies since first year.

IGCSE and Cambridge 'AS' & 'A' Levels

I attended high school (Form 1 to Upper 6) at Hillcrest College in Mutare, Zimbabwe, where I completed my IGCSE ('O' Levels) with 7A*'s and 3A's and also did my Cambridge 'A' Levels and obtained 2A*'s and 1A

SAT & SAT II Subject Tests

After a few months of self study I wrote the SAT I Exams and scored 1810 (Math: 650, Writing: 600, Reading 560 and also wrote the SAT II Subject Tests and scored 2170 (Math L2: 650. Chemistry: 710, Physics: 770)



PROJECTS

EMBEDDED SYSTEMS

Sep 2016

DIGITAL SIGNAL PROCESSING

Dec 2015

Dean's Merit List

2014, 2015 & 2016

Academic Excellence

2014, 2015 & 2016

Best CIE 'A' Level Results in 2013

2014

Highest Average in School

2013

Highest Average in Mathematics and Science

2013

Class Medal for Chemistry

2013

Best CIE IGCSE Results in 2011

2012

ST-080 Drum Machine

This is an Embedded Systems group project that was part of EEE3074W at UCT. We designed and built a prototype and more details about the project can be found at tino1b2be.com/st080

DTMF Decoder

I did this project during my internship with VASTech. The goal was to design and implement (in Java) a DTMF decoder that followed ITU-T Recommendations. Project page: tino1b2be.com/dtmf-decoder



REFERENCES

PATRICK REZANDT

GLENDOWER RESIDENCE WARDEN

Tell: +27 (0)82 211 0154

email: patrick.rezandt@uct.ac.za

JEREMY THURGOOD

SRE ENGINEER

email: jeremy@praekelet.org

DIRK POTGIETER

CO-FOUNDER AT ELECTRUM PAYMENTS

email: dirkpotgieter@electrum.co.za



SKILLS AND ABILITIES

- Software Engineering
- Computer Engineering
- Electronics Engineering
- Embedded Systems
- Digital Signal Processing
- Backend Development
- Photography & Videography



TECHNICAL ABILITIES

- Operating Systems:
 - Windows XP/Vista/7/8/10
 - Linux (Ubuntu Server/BackBox)
 - FreeRTOS (on STM32-F4)
- Technologies
 - Git
 - Django
 - RabbitMQ
 - Swift Object Storage
 - Google Proto-Buffers
 - Docker
 - Mesosphere DC/OS { Marathon & Mesos }
 - Maven
 - CircleCI | TravisCI
 - Netflix Archaius
 -
- Softwares
 - Adobe CC { PS, LR, Pr, In, Au, DW }
 - MatLab | Octave



PROGRAMMING LANGAGES

