

Tefo Advent Motaung

Curriculum Vitae

Contact details

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Personal Details

Full name
Date of birth
Nationality
Age

Tefo Advent Motaung
11-08-1998
South African
22

Profile

I am final year Mechatronic Engineering student at the University of Cape Town. I am passionate about innovation and technology. I love to learn and enhance my skills. I believe that growth is the only guarantee for a better tomorrow. I am a dedicated individual who strives for excellence. I am a team player with excellent work ethic, and I love community.

Employment History

- **Technical Assistant TZAR Civil Engineering** Dec 2020 - Mar 2021
The company had a tender with the local municipality, and I assisted in creating a register of all electrical infrastructure belonging to the local government. These assets included voltage, and power transformers, electrical connections from each household and load centers around several townships and suburbs. I visited several switching stations and distribution centers to verify the working condition of individual machines such as uninterrupted power supplies, switch gears, security lights, surge arrestors and many others.
I was also the Excel specialist for the company, doing data manipulation and capturing using several nested MS Excel functions and features. I spent the last month in the job just manipulating and analyzing data for ease of use and for presentations to the client.
[Harrismith]
- **Front end cashier at M-Vision Shop** Nov 2016 — Feb 2017
I worked as a cashier at the shop for three months. I also helped in stock taking and the shop's financial statements. Sometimes I would fill in for the security staff on busy days.
[Witsieshoek]
- **Physical Science tutor at JENN Training and Consultancy** Dec 2017 — Jan 2018
I tutored students in Physical Sciences for a weeklong Grade 12 bootcamp in the month of December. The bootcamp was designed by the Free State Department of Education. It was held in various schools across. Qwa-Qwa, but I focused on Sekhutlong High School, in Monontsha.
[Witsieshoek]
- **Graphic Designer at Every Nation Campus UCT** Mar 2018 — Nov 2019
I designed posters for events that the society would hold monthly on campus.
[Cape Town]
- **Graphic Designer at House of Glory Global Church** Nov 2014 — Feb 2017
I designed flyers for the church events. I worked on the church's first newspaper project. I designed the background the social media posts for the church's social media platform.

I designed flyers for the church events. I worked on the church's first newspaper project.
I designed the background photos for the church's mobile app.
[Phuthaditjhaba]

- **Grade 11 Maths Tutor at JENN Training and Consultancy** Jun 2019 — Jul 2019
I tutored grade 11 mathematics for a month during the holidays.
[Jagersfontein]

Traditional Education

- **The Beacon Secondary School** Jan 2012 — Nov 2016
Grade 9 – Grade 12
This is where I attended my high school.
[Mabolela Village]
- **University of Cape Town** Mar 2017 – present
BSc Eng. Mechatronics Engineering
I completed courses such as Power Engineering, Control Systems, Analogue Electronics, Embedded Systems, Signals Processing, and several programming languages including Python, Julia and Java. I learnt soldering skills and designing circuits. I worked with micro controllers like STM and Arduino. Project links are available on request.
[Cape Town]
- **University of Michigan** Jan 2021 – March 2021
Online Coursera Courses: Specialization in Web Development.
I completed courses in HTML5, CSS, and JavaScript. I learned the basics of web development and currently working on several projects to enhance the skills I already have. I am passionate about web development, mobile development, software engineering and user interfaces.

Awards

- Seven distinctions in matric final examination
[Matric certificate available on request]
- The Beacon Secondary Academic Dux Learner 2016
- Top Learner Free State SAICA Camp for Maths and Science
- one of the top learners in Physics Olympiad from the Free State
- Top 100 Students Achiever 2017 at the Provincial Grade 12 Awards Bloemfontein.
- Best Physical Science Student Award in the Free State

Online courses

- **Udemy** Jun 2018 — Aug 2018
Android Development
 I completed project management course offered by the online platform Udemy.
- **Udemy** Jun 2018 — Aug 2018
Project Management
 I completed project management course offered by the online platform Udemy.
- **LinkedIn Learning** Jul 2020 — Nov 2020
Python Data analysis
 I also completed Python Data analysis course offered by the online platform LinkedIn Learning.
- **Coursera** Jan 2021 – Feb 2021
Introduction to HTML5
 Even though I had done html back in high school, I felt the need to revise this markup language, so I did it again online.
- **Coursera** Jan 2021 – Feb 2021
Introduction to CSS
 I completed this course to learn styling webpages using style sheets and linking them to html documents for web browser presentation.
- **Coursera** Feb 2021 – March 2021
Interactivity with JavaScript
 After html5 and CSS, I just had to learn the JavaScript programming language to add interactivity on my websites. I have never regretted that decision since and I use JavaScript extensively now.
- **LinkedIn Learning** June 2021 – July 2021
ReactJS Essentials
 I learnt some React for front-end development, and built a weather app using it React. I am currently still working on many other projects because I enjoy using this library.

[links to all certificates are available on request.]

Skills

- Strong Leadership Skills
- Analytical Thinking Skills
- Project management
- Database Management
[MS Access]
- Microcontrollers
[Arduino, STM, Raspberry Pi]
- PCB Designing
[Altium etc]
- Hand Soldering Spreadsheet
[MS Excel]
- Computer Aided Drawing
[Solid Works]
- Software [Altium, MALTALB, Solid Works, Adobe Photoshop, LT Spice, Microsoft Office]

Programming Languages

- Python
 - Django
- Julia
- MATLAB
 - Simulink
- Java
- C/C++
- Arduino
- HTML5
- CSS
- JavaScript
 - React.js, npm

Internships

- **Information Technology Vacation Work at Investec Bank Cape Town Office** Nov 2017 — Dec 2017
I helped one of the Investec employees with managing the company's cloud storage facilities.
[Cape Town]
- **CPUT Vacation Training** Nov 2018 – Dec 2018
I was trained and in skills such as welding, fitting and turning, CNC programming, Metrology, Pneumatics, Basic Hand Skills and Electrical Automation. Certificate available on request.
- **Embedded Systems Developer at University of Cape Town** Nov 2019 — Dec 2019
I worked on an Embedded Systems project with my lecturer using STM microcontrollers and C language.
- **Work Readiness Program at Investec Johannesburg Office** Jun 2019 – July 2019
I completed a work readiness program offered by Investec CSI in 2019 which aimed to equip university students with soft skills needed for the corporate world and equip and motivate students solve problems and become effective members of the community.

Programming Projects

- **Using swing graphical user interphase library:**
 1. I built a calculator app for pc;
 2. I built a metric converter that converts a distance value from one unit of measurement to another.
 3. I also built a tic-tac-toe game in my home language.
 4. I built a weather app using ReactJS
 5. I built a calculator app using HTML5, CSS3, and JavaScript.
 6. I built website using HTML5, CSS3, and JavaScript.

Link: <http://github.com/TefoAM>

Languages

- **Sesotho** Native Speaker
- **English** Highly proficient
- **Zulu** Working knowledge

Drivers License

- **Code 10 - South Africa**

References

- **Dr Robyn Varrinder**
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- **Mr Roshan Roopchund**
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