BOPHILO CHARLES NTSEMI

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Education

University of the Witwatersrand, , Johannesburg, RSA – Incomplete (FinalYear)

NFQ level 8 - Bachelor of Science in Electrical Engineering
- *Majors:* Software Development, Cloud Computing in Data Science, High-Voltage Engineering, Power Systems, Electronics, Project Management Engineering Design and Prototyping

Tshimbupfe Secondary School - Completed (2017)

Matric/NSC - Grade 12
- *Majors:* Mathematics, Physical Sciences, Geography and Life Sciences

Technical Skills

Programming : *Python3, JavaScript(ES6), C++, HTML5, CSS3, SQL, Assembly, Git, Powershell, Windows Cmd, VS Code, LaTeX*
Web Technologies : *IBM, deploying Apps on Azure, Agile SDLC, CI/CD, Scrum, GitHub, WebSockets,*
Design Tools : *Figma, Adobe, Flutter, Jira,*
Front End : *knowledge of Developing with front-end development languages and tools such as HTML5, CSS3, JavaScript(ES6+), React and Bootstrap*
Back End : *basic skilled with Programming applications using back-end languages and frameworks: Express, Node.js, Python3, and Django*
Engineering : *LTSpice, MATLAB, FEMM, Oscilloscope, PLC Arduino Programming,*
Technologies/Frameworks : *Docker, Kubernetes, GitHub Actions, Windows OS Linux, Ubuntu,*
Computer : *basic skills of working with MS Word, Excel, PowerPoint, Access, Outlook, Visio, Project, Jira,*

Experience

Hlogirati (Ltd) Pty Consulting and Training Services - *Electrical Engineer Intern, (Nov, 2022 - Feb, 2023)*
- **Health and Safety practices:** *Trained in hazard identification, risk assessment, and safety protocols*
- **Technical Projects and Engineering Tasks:** *Collaborated with fellow engineering interns to design network systems, select transformer sizes, perform three-phase network analysis, and conduct fault level calculations for residential power distribution projects.*
- **Technical Installations and Maintenance:** *Assisted technicians in installing industrial motors, air conditioning systems, switchgear components, and programmable remote controls.*

CZ Electronics (Pty) Ltd - *Junior Engineering Technician (Oct 2019 – March 2020)*
- **Technical Support and Production Tasks:** *Included and not limited to - Providing clerical and technical support to senior engineers by troubleshooting manufacturing systems, testing equipment, editing technical documents, record and update production statistics.*
- **Inspection, Testing, and Maintenance:** *Testing and diagnosing faults for DSTV and Smart TV end product units, interpreted PCB diagrams, soldered faulty components, and collaborating with senior engineer ro configure hardware/software for production and testing equipment.*
- **Health and Safety Compliance:** *conducted routine inspections of tools and equipment, and participated in meetings to address technical issues and implement corrective actions for production challenges.*

Training and Competency Courses

IBM - Full Stack Software, (Feb, 2024 - July, 2024)   *certificate*
- *Learning to build cloud native applications using Docker, Kubernetes, OpenShift, and Istio.*
- *Using Django ORM to build object-oriented RDMS using IBM Db2, and compose SQL queries to insert, select, update, and delete data*
- *Creating, and deploying microservices applications using Docker containers and serverless technology IBM Code Engine.*
- *Learn creating REST API endpoints and invoke them using cURL and Postman; Use SwaggerUI to document and test APIs.*
- *learning to create and deploy AI-based applications onto a web server using IBM Watson AI Libraries and Flask.*
- *Creating Python modules, run unit tests, and package applications while ensuring the PEP8 coding best practices using Pylint.*
- *Creating server-side applications using Node.js and Express frameworks.*
- *learning to develop interactive user interfaces (UIs) and web applications using JavaScript technologies including React, JSX, and ES6.*

Artificial Intelligence Augmented Professional Development Skills, (Feb, 2024 - July, 2024)   *certificate*
- *Learn to use AI tools like Adobe and Runaway to design presentations, generate graphics, and enhance engagement through creative solutions*
- *Computer Proficiency: learn intermediate skills in Excel, Outlook, PowerPoint, and managing emails effectively.*
- *learn about leveraging AI to streamline workflows, improve collaboration, and automate routine tasks.*
- *learn about enhancing collaboration and leadership skills through AI-assisted project management and team coordination*

References

Mashavhela T.J	**Phila Nzimande**	**Nkululeko Ngwenya**
High School principal	*HR admin*	*Supervisor*
Tshimbupfe Secondary	*Hlogirati Pty Ltd*	*CZ Electronics Pty Ltd*
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