MUSAWENKOSI DUBE

ELECTRONICS AND NANOTECHNOLOGY ENGINEER

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Experience

X-ray
Saint Petersburg, Russia
06/2021 - 09/2021

Svetlana X-ray

- Design using KOMPAS 3D
- Development and production of x-ray tubes for various application
- Participated in regular training sessions to stay current with industry trends and advancements in technology.
- Documented and developed engineering procedures and processes.

Easy Code
Saint Petersburg, Russia
02/2023 - 02/2025

English and computer Programming teacher

- Enhanced classroom engagement through the use of interactive teaching methods, such as group projects and hands-on activities.
- Utilized data-driven instruction to tailor lessons for improved academic performance.
- Developed a flashcard web-application tailored for lessons

Chicaga
Saint Petersburg, Russia
02/2024 - 02/2025

English and computer Programming teacher

EFSOL Russia
Saint Petersburg, Russia
07/2023 - 01/2024

Control Systems Engineer

- Designed user-friendly interfaces for control systems, increasing ease of use and operator efficiency.
- Worked on engineering problems of complex scope, balancing competing variables in situational and data analysis.
- Developed custom control solutions for clients, resulting in increased customer satisfaction.
- Enhanced system reliability through regular maintenance and troubleshooting of control systems hardware and software.

Education

Saint Petersburg electrotechnical University
Saint Petersburg, Russia
09/2022 - 09/2024

MS Electronic and Nanotechnology Engineering

- Dissertation: "Computer simulation of wireless power transmission systems using lasers and solar cells"
- Specialization: Renewable Solar Energy

Saint Petersburg electrotechnical University
Saint Petersburg, Russia
09/2018 - 09/2022

BS Electronic and Nanotechnology Engineering

- Dissertation: "Software package for modeling x-ray image parameters"
- Specialization: Electron devices and application

Sizane High School
Bulawayo, Zimbabwe
02/2011 - 11/2016

High school

- A level 4 As
- O level 8 As 2 B2 1 distinction

Summary

Highly motivated and detail-oriented Electronics and Nanotechnology Engineer with a Master's degree and hands-on experience in designing, developing, and testing advanced electronic and nanotechnological systems. Skilled in microfabrication techniques, semiconductor device physics, x-ray, plasma, and vacuum electronics. Proficient in leveraging cutting-edge technologies and methodologies to tackle complex engineering challenges. Strong team player with excellent analytical, problem-solving, and communication skills, eager to contribute to innovative projects in the field of electronics and nanotechnology.

Languages

English Native	**Ndebele** Native	**Russian** Advanced
Shona Advanced	**Zulu** Native	

Skills

Programming:

Arduino, COMSOL Multiphysics, CSS, Django, C, C++, Git, HTML, Java, JavaScript, Linux, LT Spice, MongoDB, MATLAB, Next.js, PostgreSQL, Python React, VHDL, Node.js

Electronics:

Circuit design and analysis, Nanofabrication Techniques, Semiconductor technologies, Embedded Systems, Arduino ARM Programming