MERCY CHERONO

Electrical Engineering |Electronics Engineering |Software & Automation Engineering

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PERSONAL STATEMENT

I am a Full-Stack Software Developer with a background in Electrical and Electronics Engineering, driven by a passion for open source software and web services. My journey from engineering to software development has equipped me with a unique perspective on the intersection of hardware and software, allowing me to approach challenges with a well-rounded understanding. I am excited about the opportunity to contribute to a team, where I can leverage my skills in Python, web application development, and systems integration to support and innovate within a critical infrastructure that powers major projects. With my commitment to continuous improvement, robust code delivery, and collaborative development, I am eager to be part of a team that values innovation, reliability, and a proactive approach to problem-solving.

TECHNICAL SKILLS

- Programming Languages – JavaScript, Python
- Programming Frameworks – React, Flask
- Web Development – REST APIs
- Project Management
- Design Software – AutoCAD, MATLAB
- Code debugging
- Database Management - PostgreSQL

SOFT SKILLS

- Teamwork and collaboration
- Problem solving and critical thinking
- Excellent communication skills
- Adaptability and flexibility
- Effective time management
- Emotional intelligence
- Analytical skills

PROFESSIONAL EXPERIENCE

PLC Trainee, Centurion Systems   **June 2023 – August 2023** *Accomplishments*

- **Electrical Installations:** Collaborated in the installation and commissioning of motor control systems and elevator control systems, ensuring compliance with safety standards and operational efficiency.
- **Ladder Logic Programming:** Developed and tested PLC programs for automated machinery, including troubleshooting and optimization to improve system reliability.
- **Problem-Solving and Troubleshooting:** Identified and resolved issues in electrical and control systems, applying analytical skills to diagnose faults and implement effective solutions.

Instrumentation and Control Trainee, Kenya Pipeline Company   **June 2022 – September 2022** *Accomplishments*

- **Maintenance and Automation:** Collaboratively led the preventive and corrective maintenance of instrumentation and control systems, including calibration and testing of sensors, transmitters and HVAC systems.

- **PLC Integration:** Actively participated in the integration of PLC systems with SCADA for improved monitoring and control of pipeline operations, enhancing system automation.
- **Health, Safety, and Environment:** Trained in industry-standard safety protocols, actively contributing to the safe execution of projects and maintenance activities.

Schneider Global Student Experience, Schneider Electric   **Jun 2022 – August 2022** *Accomplishments*

- **Industrial Automation and Control Systems:** Gained in-depth knowledge of advanced automation technologies, including digital twins and their application in sustainable industrial practices.
- **Project:** Successfully completed a project that showcased Schneider Electric's solutions in alignment with the company's sustainability goals, focusing on energy efficiency and resource optimization.

Readiness Trainee, Jijali Learning – Yusudi   **October 2021 – January 2022** *Accomplishments*

- **Growth Mindset and Personal Branding:** Developed a strong professional identity and an adaptive approach to learning and career development.
- **Networking and Negotiation:** Enhanced skills in building professional relationships and effectively negotiating career opportunities, which are crucial in a consultancy role.

EDUCATION BACKGROUND

Moringa School, Software Engineering   **August 2023 – March 2024**

Coursework Highlights:

1. **Full-Stack Software Development:** Completed comprehensive training covering frontend and backend technologies, databases, and deployment strategies.
2. **Programming Proficiency:** Developed strong skills in Python, JavaScript, and Java, focusing on building scalable and efficient applications.
3. **Web-Based Solutions:** Applied software engineering principles to design and implement web-based solutions using frameworks such as Flask, Django, Node.js, React, and Angular.
4. **Version Control and Database Management:** Gained hands-on experience with version control systems like Git and GitLab, database management systems (e.g., MySQL, PostgreSQL), and cloud platforms such as AWS and Google Cloud Platform.
5. **Software Architecture:** Acquired knowledge of software architecture patterns, RESTful APIs, and microservices design principles.
6. **Project Experience:** Completed projects involving data modeling, API development, user authentication, and integration with third-party services.

Moi University, Bachelor of Engineering in Electrical and Electronics Engineering   August 2016 – May 2023

Graduated with Second Class Honors – Upper Division

- **Relevant Coursework:** Power Systems Analysis, Industrial Automation, Electrical Machines, Control Systems, Renewable Energy Systems.

Moi Girls' High School - Eldoret, KCSE   Feb 2012 – November 2015

Grade: A (82 AGP)