

Walter Maina Muteithia

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Bio Data

Gender: Male

Marital Status: Single

Date of Birth: 21st May 1981

Nationality: Kenyan

Personal Profile

Innovative software and firmware developer with expertise in embedded systems and full-stack development. Experienced in designing electronic solutions and collaborating cross-functionally to drive technical advancements. Skilled in Python, C++, Django, and database management, with a strong record of accomplishments, including firmware for M-KOPA's solar product and a video recording web app. Currently freelancing in firmware development, seeking to leverage technical and analytical skills to create impactful, scalable solutions.

Education

Sep 2018 to date	Bachelors of Science in Computer Science University of the People
Aug 2001-April 2005	Bachelors of Science in Physics and Mathematics Attained: Second Class Honors, Upper Division Moi University
1996- 1999	Kenya Certificate of Secondary Education Attained: Grade B (Plain) Dagoretti High School

Professional Qualifications

- **April - July 2001:** Computer Skills -Proficiency in MS-Windows, Outlook Express, MS-office Application; MS-Word, Excel, Access, PowerPoint, Internet Explorer; St. Joseph the Worker Training Centre
- **Jan - Sept 2000:** Electronic Repair -Technology, Servicing and fault diagnosis of Electrical and Electronic Appliances, Digital Electronics, Workshop practice, Basic electrical; St. Joseph the Worker Training Centre

Skills

- **Communication Skills:** Communicates very well both orally and in writing.
- **Technical Skills:**
 - Software development using Object oriented languages such as Python, C++, C#, and Java.
 - Back end development using Python, C#, Java and PHP.
 - Front end development using HTML, CSS, JavaScript, Vue and React.

- Database design using SQL and no SQL databases such as MySQL, MongoDB, SQLite, Microsoft SQL.
- Frameworks such as Django, Laravel and ASP.NET.
- Embedded systems design and development (FPGA's, Microcontrollers; PIC, ATMEL, STM32F429, MKL25Z, Arduino, embedded C, Raspberry pi).
- Proficient in electronics repair and maintenance.
- **Analytical Skills:** Recognizes areas of weaknesses requiring improvements and makes recommendations for consideration, approval and implementation.
- **Decision Making and Problem Solving Skills:** I am able to make timely, well considered and logical decisions on problem situations that may arise so as to find appropriate and workable solutions.
- **Flexibility:** Capacity to fit into most environments, maintain calm under pressure and can adapt well to changes in the work place.
- **Team player:** Works as a competent member of the team, willingly providing back-up support for coworkers when appropriate and actively supporting group goals.
- **Time Management:** Ability to prioritize work and manage time effectively.
- **Reporting Skills:** Ability to write research summaries and reports in compliance with organizations and other requirements.
- **Organization and Planning:** A highly organized individual who approaches all their work in a methodical and professional manner.

Work Experience

Jan 2023 - Present

Software and Firmware freelancer

Position: Firmware Developer

Responsibilities:

- Embedded System design and development.

Achievements

- Developed firmware for some client products.

Nov 2021 - Jan 2023

DoWell Research Singapore

Position: Full stack web developer

Responsibilities:

- Full stack web development using Python, Django, MongoDB, HTML, CSS and Bootstrap.

Achievements

- Developed a web app that can record webcam, screen and audio on a user's computer and store the videos in a YouTube channel.

Dec 2018 - Dec 2022

DOIDO Technologies Private Limited

Position: Software/Firmware Developer

Responsibilities:

- Developing software and firmware.

Achievements

- I worked on various software projects using Python, Django, Java, C#, C/C++, Raspberry pi and Arduino.

June 2014 - Dec 2017

M-Kopa Solar

Position: Firmware Developer

Responsibilities:

- Embedded System design and development.

Achievements

- Developed firmware for M-KOPA 4, a pay-as-you-go solar product.

Other Positions Held

- **2008 - 2012:** Freelance Electronics Repair
- **Sept 2005 - Oct 2008 :** Teacher of Physics and Math at various Secondary Schools

Additional Information

Projects Done

- Jan 2020: I created a React app to display famous quotes, you can view it at <http://quoteshome.surge.sh/>
- Dec 2017 - Present: Personal Project -Design and implementation of a cloud based data logging solution
Some of my accomplishments include: Developed skills in Python, Django, Azure, HTML, REST, CSS, C#, SQL, Visual Studio, Arduino and ESP8266.
- The IoT project's temperature and humidity graphs can be viewed at <https://environmentsensors.website/>

Hobbies and Interests

- Reading, Watching software development videos

Referees

Jacob Ninan

Project lead Dowell Research UK Limited

<https://www.linkedin.com/in/jacob-ninan-b78600157/>

Nyokabi Warobi

Former Head of Talent, M-Kopa Solar Limited

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