

IVY CHEPKOECH GESARE

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My portfolio | <https://ivy-chepkoech-software-dev-portfolio-c4wa4sw5i-gesare5.vercel.app/>

PERSONAL PROFILE

A detail-oriented, resourceful and efficient individual, with varied experience seeking to leverage my knowledge of and skills in Software Development , Embedded systems programming, Electronics, Fibre optics, PLCs, Radio technology, among others; to aid your organization achieve its objectives/goals.

ACADEMIC PROFILE

Jomo Kenyatta University of Agriculture and Technology (Juja, Kiambu) 2014 – 2020:

(Graduation Year): Bachelor of Science in Telecommunications and Information Engineering.

Final year project: Tank Gauging and Control System Using an Ultrasonic Sensor; with Enhanced GSM capability.

Jomo Kenyatta University of Agriculture and Technology (Juja, Kiambu)(Feb 2018): Fibre Optic Communication certified training.

Alphax College (Eldoret,Kenya) (Jan -Mar 2014): International computer driving license(ICDL) Short computer course

WORK EXPERIENCE

Tech4Dev | Women Techsters Fellowship | Software Development Track | May 2021 - Feb 2021:

As part of the Women Techsters Fellowship, I underwent and continue to undergo:

- Rigorous training in HTML, CSS, Javascript, React.js and C# . This accords me with the flexibility and expertise to work well with these languages.
- I am able to handle both individual and group projects and work towards building products/services that work efficiently and meet user requirements.
- I was able to implement and build many software projects both as part of a team and as an

individual.

- It also imparted in me useful soft skills such as Effective Communication and Active Listening, Teamwork and Collaboration among others.

Magfre Enterprises Limited; Audio-Visual, Communication and Security Technical and Marketing Intern | Feb 2021 - June 2021 :

As part of the Audio-Visual, communication and Security team, I ensure quality of experience for clientele; through :

- Proper analysis of customers' needs, designing impeccable solutions to suit those needs and ensuring customer satisfaction.
- Performed regular servicing/maintenance of deployed devices and ensured timely delivery of these services.
- I actively worked to recruit new clients in addition to maintaining proper relations with the already existing client base.
- I, together with my supervisors performed product demos on site as requested by clients, this included set-up, running devices and training the clients how to use them.

Freelance Academic and Technical writer | 2020 :

Delivered accurate, succinct and timely well done work to clients.

Kenya Airports Authority - JKIA, Intern | 22nd Aug 2019 - 2nd Nov 2019: During this period I worked in the **Engineering department – Electronics section**. Here I :

- Maintained and installed telephony equipment (Private Automatic Branch Exchange and associated equipment).
- Troubleshooted and repaired electrical installations including power and lighting installations in buildings, street-lighting and floodlighting.
- Maintained and updated Radio Telemetry systems for crash alarm communication system.
- Troubleshooted and maintained television networks, as well as, Fire Alarm systems including control panels, call points and smoke detectors.

Problem encountered: Newly installed digital office telephones failed to communicate.

My solution: I resolved to check initial hardware set-up, through which I identified cross wiring, which was the source of the fault. I remedied this through proper re-wiring; the phones were then up and running.

Kenya Pipeline Company Intern | Sep 2018 – Nov 2018: I worked in the **Instrumentation and**

Communication section – Engineering Department. Here I:

- Performed Sensor calibration and testing for pressure and Radar sensors.
- Practised programming of a Programmable Logic Controller for newly installed pump-motor.
- Serviced Tank gauging systems; this included disassembly, cleaning, testing and reinstalling.
- Performed planned maintenance on Fire detection and alarm systems.
- Performed networking and installation of network/ethernet cables and switches.

Problem encountered: Tank gauging system was blind, it failed to update human controllers and the system of relevant changes in level of fuel product within the tank.

My solution: I suggested removal of tank gauging probes, cleaning and testing them to ascertain whether they required replacement. We did this and the probes ended up working fine.

Kenya Pipeline Company Intern | May 2016-July 2016: I worked in the **Electrical section** (coupled with Instrumentation and Communication section) - **Engineering department.** I :

- Maintained Optical Fibre cables/communication; including repair and splicing of broken cables.
- Installed VHF(Very High Frequency) Radio communication including mounting antennas, assembly and installation of base station radios and 2-way handsets and testing.
- Performed wiring and maintenance of Electrical systems including indoor and outdoor lighting and Installations.
- Tested and troubleshooted newly installed Generator.
- Troubleshooted all broken down equipment and connections both electrical and electronic.

SKILLS

TECHNICAL:

Programming: C , C++

Database systems: MYSQL

Simulation software: MATLAB

Operating systems: Linux(Ubuntu) (4 years), Windows(5 years)

Programming of PLCs(Programmable Logic Controllers)

Electrical and Electronics wiring

Design and Implementation of Printed Circuit Boards(PCBs)
Optical Fiber design and Implementation

OTHER:

Academic and Technical writing
Impeccable communication skills
Works well in team settings
Extremely adaptable
Creative and innovative thinking

INTERESTS

Embedded systems, Programming, Emerging Technologies, Wireless Technologies, PCB Development, IOT And Smart Technologies.

I also like swimming, i'm member of several environmental clubs, horror films and anime horror films aficionado.