

# IVY CHEPKOECH GESARE

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**LinkedIn** | [www.linkedin.com/in/IvyChepkoechGesare](https://www.linkedin.com/in/IvyChepkoechGesare)

**My portfolio** | <https://ivy-chepkoech-software-dev-portfolio-new-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 | 22<sup>nd</sup> Aug 2019 - 2<sup>nd</sup> 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.