

# PETER ELVIS CHERUIYOT LANGAT

Cell: (254) 741967105

[Email: mr.plangat@gmail.com](mailto:mr.plangat@gmail.com)

## **PROFESSIONAL SUMMARY**

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Mechatronics Engineer with experience in artificial intelligence, programming microcontrollers, data analysis, electrical wiring, mechanical fabrication, maintenance of machines, additive manufacturing and lecturing in the academic and industrial sector. Pursuing Ph.D. in Mechanical Engineering at Jomo Kenyatta University of Agriculture and Technology. Possess a Master of Engineering Degree in Mechatronics from the Asian Institute of Technology and a Bachelor of Science in Mechatronic Engineering from Jomo Kenyatta University of Agriculture and Technology. Registered as a Graduate Engineer with the Engineers Board of Kenya. Excellent ability to express clearly and concisely ideas and concepts in oral and written form, flexibility, integrity, commitment and result driven.

## **TECHNICAL SKILLS**

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**PROGRAMMING LANGUAGES:** Visual basic.NET, Python, CNC programming, PLC programming

**SOFTWARES:** MATLAB, AutoCAD, SolidWorks, Fritzing, KUKA application software

**ELECTRICAL:** Design and fabrication of PCBs, Electrical wiring and installation, Electrical troubleshooting

**MACHINES:** Lathe Machine, CNC Machine, KUKA Robot

**OTHERS:** Data Analysis, Machine Learning, Deep Learning, Computer Networking, Computer Hardware Troubleshooting

## **PROFESSIONAL EXPERIENCE**

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### **Murang'a University of Technology**

*Tutorial Fellow and SET Exam Coordinator  
Department of Mechanical Engineering*

*January 2024 – Present*

Units taught include:

- Microprocessors Architecture and Interfacing
- Digital Control Systems
- Reliability Engineering
- Robotics and Automation
- Automotive Technology

### **The Technical University of Kenya**

*Sessional Assistant Lecturer  
Department of Mechanical and Mechatronic Engineering*

*September 2018 – December 2023*

Units taught include:

- Robotics and Cybernetics
- Mechatronic Sensor and Actuator Systems
- Electronics and Microprocessors
- Mechatronics Systems Design
- Industrial Robotics
- Design of Machine Elements.

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## **Kenyatta University**

*Part-Time Lecturer*

*Department of Mechanical Engineering*

*January 2020 – December 2023*

Units taught include:

- Robotics and Automation
- CAD/CAM
- Digital Electronics
- Electrical Engineering Principles II
- Electrical Engineering II

## **Egerton University**

*Part-Time Lecturer*

*Department of Industrial and Energy Engineering*

*September 2018 – April 2019*

Units taught include:

- Robotics and Automation
- Introduction to Manufacturing Engineering
- CAD/CAM
- Jig and Fixture Design, Metrology
- Computer Numerical Control
- Design of Mechatronic Systems I
- Design of Mechatronic Systems II

## **Kenya Electricity Generating Company PLC – Kipevu I**

*Engineering Attachee*

*January 2013 – March 2013*

- Installed, calibrated and maintained electrical instruments.
- Assisted in optimizing operation and safety procedures.
- Conducted investigation on electrical failures and resolved problems.
- Operated and maintained computerized control systems and auxiliary equipment.

## **Kenya Electricity Generating Company PLC – Sondu Miriu**

*Engineering Attachee*

*January 2012 – March 2012*

- Troubleshooting of PLC system (Siemens somatic S7 300) and fault diagnosis.
- Monitored and inspected plant equipment and electrical instruments.
- Assisted in auditing and conducting failure analysis.
- Cleaned and lubricated generators, turbines, pumps, compressors, etc.

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## EDUCATION

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### **Jomo Kenyatta University of Agriculture and Technology**

*Doctoral (Ph.D.) in Mechanical Engineering* September 2021 – Present  
Research: Investigation on the printability of water hyacinth and maize cob powders using Paste Extrusion

### **Asian Institute of Technology**

*Master of Engineering in Mechatronics* August 2017– July 2018

- GPA: 3.06

### **Jomo Kenyatta University of Agriculture and Technology**

*Bachelor of Science in Mechatronic Engineering* May 2008 – December 2014

- Second Class Honors

### **Sunshine Secondary School (Nairobi)**

*Kenya Certificate for Secondary Education (K.C.S.E)* February 2003 – November 2006

- Grade: A Plain

## CERTIFICATIONS

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### **GRADUATE ENGINEER CERTIFICATION**

*Graduate Engineer (EBK), December 2014*

- Certificate No: B 9018

### **COMPTIA NETWORK+ CERTIFICATION** *Comptia*

*Network+ Certification, January 2015*

- Certificate No: TBKL3327

### **A+ COURSE CERTIFICATION**

*A+ Course Certification, June 2007*

- Certificate No: CPE/65525

### **ADDITIVE MANUFACTURING**

*Additive manufacturing with Bio-based materials, May 2022*

### **DESIGN OF EXPERIMENTS**

*Design of Experiments Workshop, July 2022*

### **DATA ANALYSIS CERTIFICATION**

*Data Analytics in Python Workshop, November 2022*

### **MACHINE LEARNING CERTIFICATION**

*Machine Learning with Python Workshop, December 2022*

### **INTRODUCTION TO STATISTICS CERTIFICATION**

*Introduction to Statistics Workshop, March 2023*

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## REFEREES

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