

PASCAL OCHIENG OROT

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Career Objective

Aspiring Telecommunication Engineer with a strong foundation in networking, IoT, and electrical systems. Seeking an internship position to apply my technical knowledge, problem-solving abilities, and leadership skills in a dynamic environment while gaining hands-on experience in the telecom industry.

Education

1. Dedan Kimathi University of Technology
Bachelor of Science in Telecommunication and Information Engineering (2020 – Present)
(Waiting for Graduation in April 2025 having completed my studies in January 2025)
2. Siger Mixed Secondary School
Kenya Certificate of Secondary Education (2016 – 2019)

Technical Skills

- IoT & Sensor Integration (ESP32, MPU6050, DS18B20)
- Computer Networking (LAN/WAN setup, Internet installation, CCTV installation, Wi-Fi networks)
- Programming (Python, MATLAB, Arduino)
- Electrical Installation & Maintenance (Wiring, Power Distribution, Generator Installation Solar installation)
- Machine Learning (RandomForestClassifier, micromlgen)
- Data Processing & Real-Time Anomaly Detection
- Cybersecurity (Threat Analysis, System Vulnerability Monitoring, Data Protection)
- Troubleshooting & ICT Maintenance (Hardware, Software, Network Systems)

Professional Experience

Internship | Calmape Engineering Ltd, Nakuru

- Actively involved in business development, including tender documentation and bid preparation.
- Managed front office operations, including welcoming visitors, handling inquiries, managing correspondence, and organizing office records.

- Provided ICT support by troubleshooting hardware and software issues, performing basic maintenance in the ICT department, and managing wireless Safaricom fiber Wi-Fi. Coordinated with Safaricom's technical team to resolve network issues.
- Led cybersecurity initiatives by implementing security measures, monitoring system vulnerabilities, and ensuring data protection protocols were adhered to in Calmape Engineering Ltd.
- Joined the technical team for engineering projects, including electrical installation, CCTV installation, and generator maintenance.
- Participated in site visits, tender submission, and tender opening on behalf of Calmape Engineering Ltd.

External Attachment | Savotech Venture, Bondo

- Actively participated in the installation, repair, and maintenance of:
 - o CCTV systems
 - o Electrical systems
 - o Wi-Fi networks
 - o Solar systems
 - o Generators
 - o Alarm security systems
- Gained hands-on experience in troubleshooting and maintaining these systems to ensure efficiency and security.
- Time management and working extra hours in technical projects

Internal Attachment | Dadan Kimathi University of Technology, Nyeri

- Computer networking & troubleshooting
- Practical application of electrical machines (motors & transformers)
- Hands-on experience with engineering software (MATLAB, ArchiCAD)
- Arduino microcontroller applications
- PCB layout and design fundamentals

Projects

IoT-Based Cattle Health Monitoring System

- Designed and deployed ESP32-based nodes with acceleration and temperature sensors
- Implemented machine learning for real-time anomaly detection
- Developed a gateway for sensor data collection and analysis

Comprehensive Security & Power Solutions Deployment at Savotech Venture

- Led the installation, maintenance, and troubleshooting of integrated security and power solutions, including CCTV, alarm systems, and solar power setups.
- Conducted generator installation and maintenance to guarantee an uninterrupted power supply.

Leadership & Extracurricular Activities

Class Representative (Assistant)

- Representing Telecommunication & Information Engineering students.
- Organized the department's first networking event for students

- **Catholic Chaplaincy**
- Executive Treasurer
 - Managed financial operations and budgeting
 - Member of the constitution review committee
 - Served as St. Joseph Small Christian Community Coordinator (DeKUT School of Engineering Catholic Students)
 - Chairperson of the 2024/2025 Electoral Commission, DeKUT Catholic Students

Work Study Program (Sports Department Leader)

- Led work-study students under the sports department (2021 – 2022)
- Assisted in organizing the 11th KUSF National Women Championship at DeKUT

Peer Counseling & Mentorship

- Led a team of peer counselors under Pastor Christopher Githae
- Participated in the university's National Values and Principles of Governance training
- Certified Peer Counselor (DeKUT)
- Certified Peer-to-Peer Counselor (Kenya Students Christian Fellowship)

Climb to Educate Program

- Served as the Secretary (December 2020 – September 2021) and Registrar (September 2021 – August 2022)
- Successfully organized and participated in multiple fundraising and awareness events
- Participated in 5-day Session 7 Trip 2 Climbing of Mt. Kenya, summiting Batian

Peak

- Learned key soft skills such as teamwork, resilience, adaptability, problem-solving, leadership, and endurance

Certifications & Trainings

- Certificate of Appreciation – Blessed Irene Stefany DeKUT Community Chaplaincy (St. Joseph Association Coordinator)
- Certificate of Appreciation – Chairperson, 2024/2025 Electoral Commission, DeKUT Catholic Students
- Certificate of Participation – Session 7 Trip 2 5-day Climbing of Mount Kenya and summiting Batian Peak by Dedan Kimathi University Climb to Educate Program
- Certificate of Training – Peer Counselor (DeKUT)
- Certificate of Training – Peer-to-Peer Counselor (Kenya Students Christian Fellowship)
- Training on National Values and Principles of Governance – Dedan Kimathi University
- Cisco Networking Training (CCNA Fundamentals)
- Cisco Python Training (Python Essentials)

Languages

English

Kiswahili

Luo

Hobbies & Interests

- Hiking & Mountain Climbing
- Researching Emerging Technologies
- Traveling & Networking with Professionals
- Cycling

Referees

Dr. Joseph Muguro (PhD)

Lecturer, Electrical Department, Dedan Kimathi University of Technology

Phone: +254 724 429600

Rev. Fr. Dr. Vincent Wambugu (PhD)

Chaplain, Dedan Kimathi University of Technology

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Mr Benard Asewe

Director Savotech Venture Bondo

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