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Jospeter K. Jonathan

EDUCATION

The University of Dodoma (UDOM), Dodoma, Tanzania
Bachelor of Science in Physics With Electronics Specialization
GPA: 4.1

RESEARCH PROJECTS

- Supervisors: Prof. PVK Rao and Dr. Benard S Mwankemwa
- *Solar Panel Output Voltage Prediction Machine Learning Model,*
- Oil and Biomass Content analyzer in plants (Spectrophotometer)
- *Drug Discovery and Material science platform*
- *Intelligent Security Camera*
- *A Vehicle Safety System with Vision Intelligence for Accident Detection and Vigilance,* **(Final year Project)**

  (These projects can be viewed in my website: https://www.jospeterjonathan.tech/

SKILLS

- Programming Languages: Python, C/C++ , Javascript, Assembly
- Python Engineer Certificate
- Microcontroller and Microprocessor
- Circuit & 3D design
- Relational & Non-relational Database (SQL & MongoDB)
- Microsoft Office
- Version Control: Git, GitHub

PUBLICATIONS, HONORS AND AWARDS

- A special honour certificate for the International Astronomy and Astrophysics Competition of 2023
- Best Department and College Research Project 2024
- **Patent grant 1**, **TZ/P/2024/000118** "A VEHICLE SAFETY SYSTEM WITH VISION INTELLIGENCE FOR ACCIDENT DETECTION AND VIGILANCE". Secured a grant of **19,290,000 TZS** from the Commission of Science and Technology (COSTECH) under Higher Education for Economic Transformation

(HEET) project with the innovation titled: "A Vehicle Safety System with Vision Intelligence for Accident Detection and Vigilance".

- **Patent Grant 2, TZ/P/2025/000002** "AI-DRIVEN SYSTEM FOR MOLECULE DISCOVERY AND MATERIAL SCIENCE"
- **Patent Grant 3, TZ/P/2025/000005 "**A VEHICLE SAFETY SYSTEM WITH VISION INTELLIGENCE FOR ACCIDENT DETECTION, DRIVER MONITORING AND SAFETY ANALYTICS"

HACKATHON AND SERVICES

- UDOM AI COMMUNITY member
- 2023, Presentation for the Solar Panel Output Voltage Predictor at DALILA Projects
- **DURP Hackathon 2025:** Selected as **Top 12 out of 77** participants for the **TakaBilaStress** project, and became the most iinovative solution focusing on AI-driven waste management and recycling solutions in Dar es Salaam.

REFERENCES

Prof. PVK Rao (e-mail: pulapa.kanakarao@udom.ac.tz, pvkrao76@gmail.com); phone: +255 687 556 039

- Professor at The University of Dodoma, Physics Department
  - Dodoma, Tanzania
    - ❖ Prof. Rao is undergraduate supervisor

Dr. Hassan Kilavo Mndeme (e-mail: sirkilavo@gmail.com);
phone: +255 714 247 935

- Lecturer University of Dodoma, Electronics and Telecommunication Engineering Department
  - Dodoma, Tanzania
    - ❖ Dr. Hassan is a Mentor

Dr. Benard Mwankemwa (e-mail: bernard.samwel@udom.ac.tz);
phone: +255 754 918 028

- Lecturer University of Dodoma, Physics Department
  - Dodoma, Tanzania
    - ❖ Dr. Mwankemwa is undergraduate supervisor