

Pius O. Odhiambo, Mathematics Teacher

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SUMMARY

Enthusiastic Mathematics Teacher with a track record of inspiring students through engaging and effective instruction! With extensive experience in teaching both Mathematics and Physics, I've made learning enjoyable and meaningful for high school students. My hands-on approach and interactive lessons have always kept students motivated and excited about their education. I'm passionate about developing creative lesson plans that can cater to different learning needs, while actively involving parents in their children's education. Looking forward to making a positive impact at a vibrant school community!

WORK EXPERIENCE

01/2025 – Present

Substitute Teacher for High School, Swing Educational Services Washington DC, USA

- Supervised high school classroom assignments to foster an engaging learning atmosphere.
- Implemented lesson plans from the regular teacher to ensure consistent & effective educational delivery.
- Effectively managed student behavior to maintain focus and classroom order during lessons.
- Oversaw the safety and learning of all students, prioritizing their well-being.
- Maintained accurate attendance records for all classes.
- Interpreted lesson plans and generated reports to communicate student progress and areas needing improvement to the permanent teacher.

06/2024 – 08/2024

Computer Science Research Intern, DOD HBCU MI Shalimar, FL, USA

- Conducted research on the predator evasion strategies, geographic navigation for egg laying, and energy-efficient aerial maneuvers of *Drosophila melanogaster* (fruit fly).
- Employed the flybrain lab to evaluate the cognitive functions of the fruit fly, with the objective of creating neural networks that mimic advanced Unmanned Autonomous Vehicles (UAVs) for improved performance.
- Developed a research poster and wrote an abstract under the mentorship of AFRL for presentation at the DOD/HBCU/MI 2024 Summer internship seminar/workshop scheduled for July 25-26, 2024, in Arlington, Virginia.
- Engineered neural network circuitry to replicate the fruit fly's behavior utilizing flyvision and PyTorch.

05/2019 – 07/2020

Research Assistant, Data Science & Cybersecurity, Bowie State University

Bowie, MD, USA

- Trained undergraduate SURF research students in Data Analytics, Machine Learning, and Visualization tools to enhance their technical skills.
- Assisted students in researching cyber-attacks on SCADA systems and gathering Cyber Threat Intelligence from the darknet.
- Collaborated with a team of student researchers to construct and simulate a small SCADA system for a dam.
- Utilized data analytics tools such as WEKA, advanced Excel functions, R programming, and Python to support research initiatives.
- Implemented Machine Learning and Artificial Intelligence algorithms within SCADA systems research for improved accuracy.
- Developed an innovative algorithm to predict credit card fraud detection, contributing to cybersecurity efforts.
- Led a group of eight developers divided into teams focusing on Data Science and Cybersecurity, fostering collaboration and productivity.

08/2016 – 11/2017

High School Mathematics, Physics & Physical Science Teacher, Grace Brethren Christian School

Clinton, MD, USA

- Instructed 12th grade Consumer Math, 12th grade Honors Physics, and 9th grade Physical Science, promoting a comprehensive understanding of scientific concepts.
- Crafted detailed lesson plans and executed effective instructional techniques tailored to diverse student learning styles.
- Organized a successful educational trip to the NASA center in Greenbelt, MD, significantly enriching students' learning experiences.
- Created learner-focused notes on PowerPoint slides to facilitate effective curriculum delivery.
- Engaged in the design, administration, and assessment grading to evaluate student achievement.
- Oversaw and graded innovative projects in Consumer Math, Physics, and Physical Science, fostering creativity and critical thinking.
- Utilized technology to enhance curriculum delivery and student participation.
- Tracked student attendance, grades, homework, and lesson plans utilizing RenWeb.
- Maintained continuous communication with parents through phone calls, emails, RenWeb, and class conferences to ensure student success.

08/2014 – 06/2016

High School Mathematics & Physics Teacher, National Christian Academy

Fort Washington, MD, USA

- Instructed 10th grade Algebra/Geometry and 12th grade Physics, fostering a robust mathematical foundation among students.
- Developed comprehensive lesson plans and utilized effective teaching methodologies to enhance student learning.
- Participated in the creation, administration, and grading of assessments to uphold equitable evaluation standards.
- Supervised and assessed projects in Geometry and Physics, encouraging experiential learning.
- Leveraged RenWeb to monitor student attendance, maintain academic records, and organize homework alongside lesson plans.
- Maintained open communication with parents via phone calls, RenWeb, emails, and class meetings, strengthening the connection between home and school.

10/2001 – 12/2012

**High School Mathematics, Statistics & Physics Teacher,
Teachers Service Commission of Kenya**

Nairobi, Kenya

- Instructed high school students in Mathematics, Statistics, and Physics from grades 9 to 12, effectively preparing them for higher education.
 - Facilitated student involvement in science congresses and supervised science club projects, fostering innovation and creativity.
 - Received a Certificate for exemplary performance in Physics in 2010, a testament to effective teaching.
 - Led the e-learning department, successfully managing the technology integration for a school of 1,000 students.
 - Coordinated comprehensive staff training in e-learning for 60 educators and over 1,000 learners, enhancing digital proficiency.
 - Played an active role in designing, administering, and grading assessments to maintain academic integrity.
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EDUCATION

08/2019 – 05/2024

**Bowie State University
Master of Science, Computer Science**

Bowie, MD, USA

- Relevant Coursework: Mathematics & Computer Science

10/1996 – 10/2000

**Kenyatta University
Bachelor of Science Education, Mathematics, Statistics &
Physics**

Nairobi, Kenya

- Relevant Course Work: Mathematics, Statistics & Physics
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LANGUAGES

English (Native)

Swahili (Native)
