**CURRICULUM VITAE**

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**EDUCATION**

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| **YEAR** | **INSTITUTION/COLLEGE/ UNIVERSITY**  | **COURSE/****PROGRAMME**  | **GRADE****ATTAINED** |
| **FROM**  | **TO** |
| **2011** | **2018** | Maseno University | **PhD in Physics** Thesis title: “Development and validation of a drying model for *Rastrineobola argentea* fish in an indirect forced convection solar dryer” | **Graduated** |
| **2002** | **2008** | Maseno University | **M.Sc. Physics**: Thesis title: “Optical Properties of thin film of MgF2 thermally deposited on glass substrates” | **Graduated**  |
| **1987** | **1990** | Kenyatta University | **B.Ed(Sc.) Physics (Major) mathematics (minor)** | **Second Class Hons. (Upper Division)** |
| **1984** | **1985** | Kakamega High School | **K.A.C.E, Mathematics, Physics and Chemistry** | **2 principal passes****2 Subsidiary passes** |
| **1980** | **1983** | Mawego Technical School | **K.C.E.** | **Division I** |
| **1972** | **1979** | Lake Primary School-Kisumu | **C.P.E** | **Passed** |

**RESEARCH EXPERIENCE**

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| **CURRENT RESEARCH** | 1. Design and testing of domestic and commercial scale mixed mode solar dryers for drying of food products
2. Design of active solar granary for drying of maize
3. Effect of concentration of Zinc on the optical properties of Zinc – doped Cadmium Stannate thin films deposited on glass substrate by dip – coating
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| **PAST RESEARCHES** | 1. Design and testing of forced convection solar dryer
2. Modeling of the drying process of *Rastineobola argentea* fish in indirect solar dryer
3. Investigating the solar drying process of vegetable Kales in natural convection solar dryer
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**WORK EXPERIENCE**

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| **PERIOD** | **ORGANIZATION/****COMPANY** | **SUMMARY OF JOB DESCRIPTION,** **Duties and Responsibilities** |
| **2019 to Date** | Maseno University | **Lecturer*** Teaching Physics courses offered by Department of Physics and Materials.
* Laboratory Director-Physics
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| **2010/2018** | Maseno University | **Tutorial Fellow*** Teaching Physics courses offered by Department of Physics and Materials.
* Laboratory Director-Physics
 |
| **2002/2010** | Kisumu Polytechnic | **Principal Lecturer**: * Teaching Computer Application and Electronics
* Departmental Industrial Attachment Officer
* Internal Auditor QMS
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| **1997/2001** | Kisumu Polytechnic | **Head of Mathematics and ICT Department*** Overseeing of training programs in the department
* Preparation of departmental budgets
* Developed tailor made computer training programs for staff of companies.
 |
| **1990/1996** | Kisumu Girls high School | **Ass. Teacher Physics and Mathematical/Lay Chaplain*** Teaching theories and applications of physics
* Organizing Physics Practical lessons
* Trustee of the Teachers Welfare Group
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**SKILLS AND TRAINING**

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| **PERIOD** | **ORGANIZATION/****COMPANY** | **Title of Training** |
| **2010** | HETTNODE  | QMS Internal Auditors Training |
| **2009** | HETTNODE | QMSAwareness training |
| **2001** | St. John Ambulance | First Aid at Work Course |
| **1999** | Vocational Training Project-GTZ | Workshop on Practical Exercises in Physics for Science Laboratory training in I.T.s and T.T.I.s |
| **1998** | Vocational Training Project-GTZ | Workshop on Practical Exercises in Physics for Science Laboratory training in I.T.s and T.T.I.s |

**LEADERSHIP EXPERIENCE**

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| **PERIOD** | **INSTITUTION** | **Responsibilities** |
| **2012 to Date** | Maseno University | Laboratory Director-Physics |
| **2002/2010** | Kisumu Polytechnic | Departmental Industrial Attachment OfficerInternal Auditor QMS |
| **1999/2001** | Kisumu Polytechnic | Head of Mathematics and ICT Department |
| **1990/1996** | Kisumu Girls high School | Trustee of the Teachers Welfare Group |

**CONFERENCES AND WORKSHOPS**

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| **PERIOD** | **ORGANISER(S)** | **Title of Conference/ Workshop** |
| **2019** | Maseno University | Research Capacity Building Conference |
| **2013** | Maseno University and MMUST | Research Grants Writing Workshop |
| **2011** | KCA University | Research Methods Workshop |

**PUBLICATIONS**

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| 1. Investigating the thin layer drying characteristics of vegetable kales in a natural convection solar dryer under the climatic conditions of Maseno, Kenya’, *International Journal of Engineering Research and Technology*, 3 (8): 1527-1535 (2014) |
| 2. Design and testing of an indirect solar dryer for thin layer drying of *Rastrineobola argentea* fish under the climatic conditions of Maseno, Kenya’, *African Journal of Food Science*, 9 (1): 1-16 (2015) |