

# CURRICULUM VITAE

## PERSONAL DETAILS

**NAME:** ISAAC WAIRE MAINA  
**ID/NO.:** 0284308  
**DATE OF BIRTH:** 6<sup>TH</sup> DECEMBER 1959  
**MARITAL STATUS:** MARRIED  
**NATIONALITY:** KENYAN  
**MOBILE NO:** 0728938877

## PROFESSIONAL QUALIFICATIONS

1989: MSc Control Engineering, University of Bradford (UK)  
1988: B.Eng (Hons) Mechanical Engineering, Thames Poly (UK)  
Diploma in Higher Education (UK)  
1984: Higher Diploma Part 2 (Production option) (K)  
1983: Higher Diploma part 1 (plant option) (K)

## EDUCATION BACKGROUND

1980: KACE A-level 3 principal passes + 2 subsidiaries, Mombasa Polytechnic  
1978: O'level, Division 1, Rift Valley Technical School (Eldoret)  
1974: CPE English A-, Maths A, General Paper A-

## EMPLOYMENT BACKGROUND

1980: Teaching, Tartar Secondary School – Kapenguria  
1985-1990: Lecturer, Kenya Polytechnics (Mechanical Engineering Dept.)  
1990-1993: Lecturer, JKUAT (Mechanical engineering Dept.)  
1993 to date: Lecturer, Kenyatta University (Mechanical & Manufacturing Engineering Department)

## PART TIME JOBS (1990 TO DATE)

Kenyatta University  
University of Nairobi  
Moi University  
Jomo Kenyatta University of Agriculture and Technology  
Kimathi University College

## EXTRA CURRICULA ACTIVITIES

Preacher: Gospel Missions Assembly Tabernacle  
Overseer: Gospel Missions World Wide Ministries

## INDUSTRIAL EXPERIENCE

1983: Industrial Attachment, Unga Ltd Commercial Street Nairobi

## PROJECT AND THESIS

1. Thesis submitted in fulfillment of the requirements of the award of the degree of Master of Science in Control Engineering.  
*"Methodologies and techniques used in programmable logic controllers".*
2. Thesis submitted in fulfillment of the requirements of the award of the degree of Bachelor of Engineering (Hons) in Mechanical Engineering.  
*"Vibration in cam and follower motion".*
3. Project report submitted in fulfillment of the requirements of the award of Higher Diploma Mechanical Engineering (Production option).  
*"Design of experiments in a vibration rig".*
4. Group projects in alternative energy systems, 1988 Thames Polytechnic, London Woolwich.

## RESEARCH INTERESTS

For PhD Studies: 

1. Vibration Control and Noise Silencing
2. Alternative Energy Systems

## JOB DESCRIPTIONS

Name: Isaac Waire Maina  
Designation: Research Fellow/Lecturer  
Duties: Teaching Assignments

### A) Kenyatta University

#### (i) Undergraduate Courses (different periods)

SET 100, 101, 200: Engineering Drawing I, II, and III

SET 102 Introduction to Material Science

SET 202 Engineering materials

SET 203, 307, 405 Engineering Thermodynamics I, II and III

SET 206, 213, 306 Workshop Processes and Practice I, II and III  
SET 211 and 212 Engineering Mechanics I and II  
SET 301 and 311 Mechanics of Machines I and II  
SET 310 Innovation and Design  
SET 302 and 303 Solid and Structural Mechanics I and II  
SET 313 Measurement and Instrumentation  
SET 331 Heat Transfer  
SET 312 Fluid Mechanics I, II and III  
SET 316 Field Attachment I and II (Coordinator)  
SET 410 Systems and Control Engineering  
SET 414 Design Projects I  
SET 513 Engineering Project II

**(ii) Postgraduate Courses**

SAT 511 Total Energy Systems  
SET 602 Advanced Heat Transfer

**B) Moi University**

ELC 312 Control Systems I (electrical)  
ELC 401 Control Systems (civil)  
PRD 341 Mechanics of Machines II (Production)

**C) JKUAT**

EME 2201 Engineering Mechanics L (Mech and BEED)  
EMT 2204 Engineering Mechanics  
EME 2206 Engineering Mechanics II (Mech and BEED)  
EME 2220 Thermodynamics (FS and PT)  
EME 2101, 2102 Workshop processes and Practice I and II  
EME 2211 Mechanical Engineering Principles (service to electrical and Computer Engineering)  
EMT 2101, 2104, 2203 Engineering Drawing and Design I, II and III  
EME 2415 Systems and Control Engineering

**D) University of Nairobi**

Engineering Drawing (FME)

## **OTHER DUTIES AT KU**

1. Undergraduate Committee Member
2. Industrial Attachment and Institutional Liaison Member
3. Income Generating Committee Chairman
4. Manufacturing Research Group Member
5. Placement Co-ordinator
6. Co-ordinator Trimester