Egerton University, Kenya | Email: muchiri.esmwangi@gmail.com | Tel: +254753936201

SIMON MUCHIRI MWANGI

EDUCATION

Bachelor of Medicine and Bachelor of Surgery (MBChB)

Egerton University, Kenya

2024 - 2030 (Expected)

Kenya Certificate of Secondary Education

Murang'a High School

2020- 2023

- Outstanding achievement in Sciences and Technology
- Robotics Team Lead

Primary Education

Archbishop Gitari Primary School (2015 - 2019)

Gathigiriri Primary School (2011 - 2014)

TECHNICAL SKILLS

Programming Languages & Frameworks

- Rust (Embedded Systems Programming)
- Python (Automation & Scripting)
- JavaScript (Vue.js, Nuxt.js)
- HTML/CSS
- Robotics Programming (EV3)

Areas of Expertise

- Medical Technology Integration
- Embedded Systems Development
- Web Development
- Automation Solutions
- Robotics

NOTABLE ACHIEVEMENTS & PRESENTATIONS

Presidential Award for Scientific Innovation

- Received recognition from **President William Ruto** for outstanding science project
- Demonstrated innovative application of technology in solving real-world problems

NACOSTI Conference Presenter (2023)

- Selected as the only high school presenter at the 2nd NACOSTI Conference, Safari Park
- Presented innovative robotics solutions
- Demonstrated the intersection of technology and practical applications

KSEF Robotics Competition

- Award winner at multiple levels:
    - Sub-county Level (Murang'a East)
    - County Level (Murang'a)
    - Regional Level (Central)
- Led team in developing innovative robotics solutions

PROJECTS

Medical Technology Integration

- Focusing on bringing technological innovation to healthcare through embedded systems
- Specializing in bare metal programming for medical applications
- Developing efficient automation solutions for medical processes

Entepreneurship & E-commerce Platform Development

- Founded and developed Crafted in Kenya (https://craftedinkenya.store)
- Implemented full-stack solutions using modern web technologies
- Managed end-to-end development and deployment

Web Scraping & Automation

- Developed automated exam creation and distribution system
- Created efficient scraping solutions for educational content
- Implemented systems for content monetization on Stuvia

TECHNICAL INTERESTS
- Medical Technology Innovation
- Enterpreneurship
- Embedded Systems Programming
- Healthcare Automation
- Robotics Development
- Web Application Architecture

ADDITIONAL SKILLS & INTERESTS
- Strong problem-solving abilities
- Cross-functional team leadership

- Project management
- Outdoor activities: Hiking and Cycling
- Music appreciation: Country genre

REFERENCES

Mr. Bosuben
Science Patron
Murang'a High School
Contact details available upon request

Mr. King'ori
Computer Science Teacher
Murang'a High School
Contact details available upon request