



# Philemon MANZI MUCYO

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Kigali City, Rwanda

## PROFESSIONAL GOALS

- **Aerospace Engineer:** Rocket scientist and manufacturer
- **Astronomer:** Dark Matter & Dark Energy Research

## PROFESSIONAL SUMMARY

Impactful project coordinator with exemplary marketing and partner service abilities. Assertive professional with good communication, networking, and negotiation skills. Adept in acquiring investors to provide growth and sustainability for the company. Dedicated to shaping a foundation and fulfilling its mission and vision. Uses innovative and personalized approaches to raise brand awareness and develop long-term partner relationships. Driven and well-versed in project development. Service-oriented and eager to train employees to reach their full potential. Track record of defining and improving organizational culture to fuel ideal workforce.

## PROFESSIONAL SKILLS

- Coordination & program oversight
- Budgeting
- Networking, cooperation, & negotiation
- Team building

## EXPERIENCE

01/2023 - Current

### Owner & Project Lead

**Project AHEAD** | Kigali City, Rwanda

- Prototype liquid oxygen and ethanol rocket engine research, design, and development, supervised by Greg Wyler (E-Space, International) and Razvan Florin (New Basara Consult, Romania)

09/2022 - Current

### National Coordinator

**STELA & TEACH Rwanda Robotics Program** | Kigali City, Rwanda

- Successfully managed and coordinated a team of 20+ employees and volunteers.
- 10+ new FLL (FIRST® LEGO® League) robotics teams in Rwanda.
- Answer requests for service and information about robotics programs by mail, email, telephone, and in person.
- Manage smooth operations and communicate timely updates to coordinate administrative activities.
- Interview, train, and develop staff and volunteers to become high-performing robotics team leaders to boost team productivity.
- Draft and edit correspondence and materials related to project work to guarantee accuracy and uniformity in documentation.
- Produce and deliver financial reports to support decision-making based on the organization's financial status.
- Manage deadlines and progress across teams to facilitate project delivery within timelines.
- Provide team members with project resources to complete work and maximize efficiency.
- Oversee risk management: identify and evaluate risks to prevent negative impact on desired outcomes.

01/2023 - Current

### Robotics Coach

**STEM Inspires** | Kigali City, Rwanda

- Train 15+ teams for the FLL Championship
- Provide technical assessment and assistance
- Oversee weekly operations of 3+ robotics teams

- Problem-solving & conflict resolution
- Curiosity, emotional intelligence, skillful listening, effective communication
- Cross-industry partnership development
- Periodic documentation
- Resource management
- Operations oversight

## COMPUTER SKILLS

- **3D modeling:** SolidWorks, Fusion 360
- **Graphic Design:** Adobe Illustrator, Adobe Photoshop
- **Text & information processing:** Word Office, Excel, PowerPoint
- **Video Editing & Motion Graphics:** Adobe Premiere Pro, Adobe After Effects

## INTERESTS

Astronomy, aerospace, mechanics, drums, & guitar, deep conversation, reading, networking

## LANGUAGES

- **English:** Speaking: fluent, Reading: very good, Writing: very good
- **French:** Speaking: fluent, Reading: very good, Writing: very good
- **Kinyarwanda:** Speaking: mother tongue, Reading: very good, Writing: very good
- **Russian:** Speaking: minimal, Reading: good, Writing: good
- **Greek:** Speaking: none, Reading: good, Writing: good

04/2023 - Current

### Robotics Consultant

UN Women | Kigali City, Rwanda

- Coach robotics trainers, write curriculum, and schedule African Girls Can Code Initiative boot camp

06/2023 - 06/2023

### Exhibitor & Trainer

UNESCO | Kigali City, Rwanda

- Exhibited FIRST® LEGO® League-based STELA & TEACH Rwanda Robotics Program at the IYBSSD (International Year of Basic Sciences for Sustainable Development) 2023

06/2023

### Participant

Global Young Academy meeting | Kigali City, Rwanda

- Connected Rwandan education INGOs with international science academies

03/2023 - 03/2023

### Robotics trainer

UNESCO | Musanze, Rwanda

- Coached 114 high school girls through STELA and TEACH Rwanda at the National STEM/ICT Mentorship Training Camp organized by the Rwanda National Commission for UNESCO (CNRU)

11/2022 - 01/2023

### Special Education Teacher Assistant

Green Hills Academy | Kigali City, Rwanda

- One-on-one teacher assistant with a neurodiverse 4-year-old nursery student who developed fine-motor skills and learned to manipulate clay, chalk, markers, and pencils, improved speech, increased social skills

10/2021 - 09/2022

### Lead Volunteer Robotics Coach

STELA & TEACH Rwanda Robotics Program | Kigali City & Muhanga, Rwanda

- Coached primary and secondary students to work in teams
- Taught students how to build sturdy robots
- Trained students in robot programming
- Prepared and led robotics coaches

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## CERTIFICATIONS AND EDUCATION

2023

Coderina | Kigali

International FIRST® LEGO® Referee: Robotics

## HOBBIES

- Theoretical physics
- 3D modeling
- Graphic design
- Video editing

## REFERENCES

- William Whipple: Business Representative, TEACH Rwanda  
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- Eric Biribuze: Founder & Chair, STELA Inc.  
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- Amelia Wyler: Founder & Chair, STEM Inspires  
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- Dominique Mvunabandi: Director, Science & Technology Unit, Rwanda National Commission for UNESCO  
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- Umar Bukenya: Physics teacher, Lycée de Kigali  
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ubukie@gmail.com

- Certified for International Referee status after heading referees at the Regional Championship

2023

**LinkedIn Learning** | remote

SOLIDWORKS 2022 Essential Training: 3D modeling

- Certified for course completion

2021

**TEACH Rwanda** | Muhanga

Lead Volunteer Coach: STELA and TEACH Rwanda Robotics Program

- Certified to coach students and volunteer coaches on robotics skills: building and programming

2021

**Lycée de Kigali** | Kigali, Rwanda

Upper Secondary (High School / A-level): Physics, Chemistry, and Mathematics

- Sciences
- President of Mathematics Club
- Head of Practical's Department, Science and Technology Club

2018

**Aviators Graduate School** | Kigali

Aviation Certificate: Aviation

- Certified for Aviation and Space Program for secondary school students

2018

**African Institute for Mathematical Sciences** | Kigali

Mathematical Problem Solving: Mathematics

- Certified for weekly and monthly mathematical challenges program

2016 - 2017

**College George Fox de Kagarama** | Kigali

Year 1 and year 2, Lower Secondary (O-level)

2016

**Africa Smart Investment Distribution** | Kigali

Web Design and Mobile App Development SMART BOOT CAMP attendance: Information Technology

- Certified for coursework in mobile phone app, and website building

2014

**Ecole Secondaires de Muhazi** | Gitarama

Year 1 Lower Secondary (O-level): Arts and Sciences