



OSIRUMIJI IHUDE

TEEN SCIENTIST AND RESEARCHER

📍 Harare, Zimbabwe

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ABOUT

Osirumiji Ihude is a 17-year-old Zimbabwean - South Sudanese scientist & inventor, space enthusiast & climate activist passionate about leveraging technology to solve real world challenges. His love for STEM (Science Technology Robotics Engineering Mathematics) & research has led him to come up with a number of inventions aimed at helping the community around him, many of which have won awards in local & international fairs. He also regularly hosts STEM workshops for students, including the NASA Space Apps Challenge which in 2022 was Zimbabwe's biggest ever space hackathon.

linkedin.com/in/osirumiji

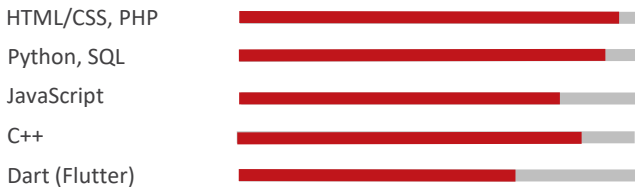
twitter.com/osirumiji

github.com/osirumiji

facebook.com/osirumiji

SKILLS & EXPERTISE

Computer programming languages



SKILLS

Artificial Intelligence (AI)	Mobile app and website development
Machine learning	UI/UX Design
Graphic design	MS word, PowerPoint, excel
Scientific writing	Public speaking

MBTI: INTP

Languages

- English:** Excellent verbal and written skills
- Shona:** Proficient
- Juba Arabic:** Intermediate
- Luganda:** Elementary

EDUCATION

> USAP Community School 2023 - 2024 📅

Mathematics, Physics & Chemistry

Grade 11 - 12

USAPCS is a residential A level school for some of the nation's brightest students. Accepted into the class of '24 with an acceptance rate of 6%. **Activities:** Chess club, robotics club

> Seke 2 High School 2019 - 📅

Pending - ZIMSEC November 2022

Grade 7 - 10 | 3.5 GPA

Senior prefect, Chess club captain, science club captain, Quiz club captain, Tuseme club secretary, Child protection committee

> Chegutu Primary School 2017 - 📅

5 UNITS (As) - ZIMSEC November 2018

Grade 5 - 6

Top student of the year (x2), Senior prefect, Chess club vice-captain, science club captain, quiz club captain, debate club

EXPERIENCE

> President 2021 - Present 📅

Students for the Exploration and Development of Space Zimbabwe (SEDS Juniors)

SEDS is the world's biggest space advocacy group for university and high school students. We strive to promote the continued development & sustainment of space related activities through a wide range of public outreach programs for students & professionals.

> NASA Space Apps Local Lead 2022 - Present 📅

National Aeronautics and Space Administration (NASA)

The NASA International Space Apps Challenge, held by NASA & 11 other space agencies is an annual hackathon for scientists and artists around the world. As local lead, I coordinate the competition in Harare & held the country's biggest ever space hackathon in 2022.

> Student Space Ambassador 2021 - Present 📅

The Mars Generation

Student Space Ambassadors (SSA) are inspirational forces in their own communities. They share their own excitement and love for space. By sharing that excitement with others and sharing their own goals and dreams, they inspire others to dream big, act big and go out to make a change in the world.

> Management committee member 2022 - Present 📅

Regional STEAM Expo

Part of the organizing committee for the Regional STEAM Expo, an annual festival for young scientific talent around the country.

> Researcher Sept 2022 - Present 📅

New York Academy of Sciences

Part of an International team of six students working on Player X, an enhanced underwater diving suit for the Exploring the Extremes Challenge under the guidance of Dr. Garret Schneider (PhD).

> Fall intern June - July 2022 📅

Comet

Served as a UI/UX design and software development intern at Comet. Helped build and test the comet college applications app.

> Freelance 2018 - Present 📅

Speaker

Science communicator with a lot of experience in public speaking. Spoke on radio at the UNICEF World Children's Day and was a panelist at the MILSET Young Citizen's Conference 2022. Visit osirumijihude.space/outreach to see all speaking events or book

UI/UX designer, Graphic designer

Software developer, Mobile & web app developer

Website developer

Software developer with an extensive knowledge of front end and back website development and mobile app development experience. Visit osirumijihude.space/services to see my portfolio

> Coding instructor

Code club Zimbabwe

2022 - Present 📅

Teach Me Too Code

2021 - Present 📅

Currently serving as a coding instructor for HTML/CSS, JavaScript & Python.

> Member 2022 - Present 📅

Space Generation Advisory Council

VOLUNTEERING

> Hon. Junior Councillor 2021 - 2022

Chitungwiza Municipality Junior Council

As a junior councillor I was responsible for ensuring the welfare of children and the continued uplifting of child rights in Chitungwiza and the nation as a whole. Carried out a variety of community engagement activities including fundraisers for orphanages and child rights awareness campaigns.

> Tuseme club trainer 2019 - Present

Forum for African Women Educationalists (FAWEZI)

Tuseme (Speak out) is a program coordinated by FAWE(ZI) to curb School Related Gender Based Violence as it affects learners at school (SRGBV). As an official Tuseme club trainer, I work with students and members of the community to address (SRGBV) and seek solutions to it.

> Public Relations Officer Feb - Nov 2021

Black Einstein's Labs

Black Einstein's Hub is an organization eager to empower young people with 21st century skills of critical thinking, collaboration, communication and creativity so that they can achieve their potential as young scientists, engineers and innovators. As PRO I was in charge of social media management, community engagement and public correspondences

> Ambassador 2020 - Present

Science Porium

Currently serving as a science ambassador for Science Porium, a STEM advocacy group in Harare, Zimbabwe.

> Climate ambassador 2022 - Present

Elevate Trust

Appointed as a youth climate ambassador by Elevate Trust.

RESEARCH & PUBLICATIONS

> Cardio - go

Research partner: Tatenda S Mazambani

Cardio - go is a device my partner and I designed to combat hypertension in patients without the use of any drugs. The hand-worn device is powered by the heat of the wearer's hand and has managed to effectively lower Blood Pressure with no side effects. Hypertension is a huge problem as 1 in every 6 people suffer from and it is the leading cause of deaths in the world according to the World Health Organization. Our device offers a cost-effective alternative to modern methods of treatment.

> Player X

Research partners: Noramon Ransibrahmanakul, Claire Ma, Caroline Huang, Ruhi Samudra & Luv Meena.

Set out to design an underwater diving suit with enhanced capabilities to increase efficiency, comfortability and capabilities in marine operations. We conducted this research as part of the exploring the extremes challenge for the New York Academy of Sciences in November 2022 under the supervision of Dr. Garret L Schneider. Our suit was specifically designed to outperform current ones using artificial intelligence models, nanotechnology, 4D printing and energy harvesting methods.

HOBBIES & INTERESTS



Reading



Astronomy



Chess



Robotics



Gaming

AWARDS/HONOURS

> Leaders of our future ambassadorship award '22 *Junior Medical Academy*

> Ultramed Healthcare award '22 *Ultramed Healthcare*

> Panelist - Our future in space

MILSET Young Citizen's Conference '22. Presented about space debris and how we can avoid it.

> Award for exceptional academic achievement *Methodist Church in Zimbabwe.*

> Finalist

Africa Science Buskers Festival '22 - won two grand awards

> Finalist

Zimbabwe Science Fair '22

> Best in English

Better Schools Program Zimbabwe (BSPZ) '19

> Speaker - UNICEF World Children's Day '20

Spoke on radio about Climate change and the effects it has on our generation

> Youth climate ambassador

Elevate trust

> National quiz competitions finalist

Led our school quiz team to the provincials twice in 6th and 9th grade

> 3rd place

Chegutu public speaking competition

> 2nd place

Uganda National Debate Competitions '16

> Participant, TEDTalk (April 2021)

Topic: William Kwakamba, one of Africa's finest inventors.

REFERENCES

Dr. Stephen M Hubbard

Mentor

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Mr. Knowledge Chikundi

Founder and director, Zimbabwe Science Fair

 knowledge@sciencebuskers.org

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