





ABEDAI PROFILE



NDS2 HBC EDUCATION 5.0

ROBOTICS

MICTPCS

MMMD

ABEDAI NATIONAL ROBOTICS, AI & IOT CHALLENGE (ANRAIC)

FRAMEWORK



Thank you Honorable Minister Tatenda Mavetera

1. OVERVIEW

ANRAIC (Abedai National Robotics, AI and IoT Challenge) is a national innovation ecosystem founded by Abedai Technologies to identify, develop and commercialise young innovators through Robotics, Artificial Intelligence (AI), Internet of Things (IoT), and engineering-based problem solving.

The programme is designed to support: Heritage-Based Curriculum (HBC), Education 5.0, National Development Strategy 2 (NDS2) Innovation, National AI Strategy and entrepreneurship.

ANRAIC transforms learners from idea creators into innovators capable of developing commercially viable solutions.

"2. ANRAIC INNOVATION PIPELINE

TRAIN → CREATE → COMPETE → SHOWCASE → COMMERCIALISE

Schools and innovators progress through a structured pathway:

SCHOOLS/ CLUB AFFILIATION STEPS

1. Teachers & Facilitators Training.
2. School Digital Club Formation.
3. Abedai School Robotics, AI & IoT Challenge (ASRAIC).
4. Abedai Cluster Robotics, AI & IoT Challenge (ACRAIC)
5. Abedai District Robotics, AI & IoT Challenge (ADRAIC)
6. Abedai Provincial Robotics, AI & IoT Challenge (APRAIC)
7. Abedai National Robotics, AI & IoTChallenge (ANRAIC)

UNCONSTRAINNED TECHNOLOGICAL INNOVATION



Congratulations to Makumbire Hilltop (ANRAIC2) - Overall Best Prize

ABEDAI TECHNOLOGIES P/L

3. ANRAIC AFFILIATION MODEL

SCHOOL TERM AFFILIATION FEE: $100

The affiliation fee provides:

✅ ANRAIC membership
✅ Eligibility to participate in competitions
✅ Access to annual innovation themes
✅ Competition guidelines and judging standards
✅ Teacher participation in ANRAIC workshops
✅ Club establishment support
✅ Mentorship and guidance
✅ Access to discounted resources

The affiliation fee does NOT include:

❌ Robotics kits
❌ AI kits
❌ IoT kits
❌ Components
❌ Computers
❌ Project materials
❌ Learner training fees





Historical tales of the best stories witnessed.

4. OPTIONAL ABEDAI TRAINING PROGRAMME $50/STUDENT/TERM

Schools requiring direct training support may engage Abedai Technologies.

School Training includes:
Robotics Foundations, AI & IoT systems, Programming, design, HBC Prototyping and Competition preparation.

Training fee excludes:
Robotics kits, Components, Materials, Hardware Training & Prototyping resources.

PRESIDENTIAL INNOVATION SHOWCASE

5. DISTRICT TRAINERS' WORKSHOPS

PURPOSE

A 3-day Trainer of Trainers (ToT) workshop to develop a network of educators and facilitators capable of supporting ANRAIC clubs.

ACTIVATION

A district wworkshop starts when:
10 affiliated schools are registered in a district


Solid Rock School

WHO CAN PARTICIPATE?

Maximum Cohort:
3 ToTs per school
For 10 schools:
Maximum 30 participants per bootcamp

Participants:

- Teachers
- Club patrons
- University lecturers
- Polytechnic trainers
- Robotics service providers
- Community innovation facilitators

6. SCHOOL DIGITAL CLUBS

Every affiliated school establishes or strengthens a club.

Schools without clubs:

Abedai supports:

- Club formation
- Teacher guidance
- Resource planning
- Innovation activities

Schools with existing clubs Receive:

- Competition guidance
- Mentorship
- Challenge information
- Technical support


CocoBlue International School

7. COMPETITION STRUCTURE

1. Abedai School Robotics, AI and IoT Challenge (ASRAIC)
School-level selection of best innovations.
2. Abedai Cluster Robotics, AI and IoT Challenge (ACRAIC)
Schools compete within clusters.
3. Abedai District Robotics, AI and IoT Challenge (ADRAIC)
District champions selected.
4. Abedai Provincial Robotics, AI and IoT Challenge (APRAIC)
Provincial champions selected.
5. Abedai National Robotics, AI and IoT Challenge(ANRAIC)
Zimbabwe national finals.
6. Presidential Robotics, AI & IoT Innovation Showcase (PRAIIS)

8. Competition Categories



Good News

Infant Category ECDA-Grd2(Below 7years)

Focus:

- Creativity Blocking
- Simple machines
- Basic Blocks & Coding
- Problem awareness

Junior Category Grd3-Grd7 (8-13yrs)

Focus:

- Robotics, AI and IoT
- Programming, Block Coding
- Community solutions

Senior Category Frm1-6 (14 - 20yrs)

Focus:

- Advanced robotics
- 3D Designing
- Drone Technologies AI systems
- Automation
- Fintech
- Engineering solutions

Tertiary Category

Universities, colleges, polytechnics and vocational institutions.

Focus:

- Research & Development
- Advanced prototypes
- Fintech & Geospacial
- Blockchain
- Cyber Security
- Electronics
- Embedded Systems
- Microelectronic Fabrication
- Quantum Computing

9. Term Themes

Each ANRAIC cycle has a theme linked to national priorities.

ANRAIC 3 Theme:

"Commercialisable AI-Driven Heritage Smart Machines for Modern Healthcare"

Open Innovation Category

Community innovators:

- Startups & Makers
- Industry innovators
- Innovation hubs

Challenge

Develop AI, Robotics and IoT solutions inspired by local challenges, heritage knowledge and community needs, with potential for commercialisation.

POWERFUL GIRLS in STEAM

10. PRESIDENTIAL INNOVATION SHOWCASE



PRESIDENTIAL ROBOTICS, AI & IOT INNOVATION SHOWCASE

PRAIIS

Following ANRAIC finals, outstanding innovations are presented to national leadership, industry and investors.

Objectives:

- Recognition of young innovators.
- Sponsorship opportunities.
- Commercialisation partnerships.
- Incubation support.
- Product development.

Winning innovations move from:

Competition Prototype → Supported Innovation → Commercial Product

ANRAIC: From Ideas, To Innovation, To Industrialisation.

PROPERTIES AVAILABLE





11. RESOURCE ECOSYSTEM

Abedai Technologies facilitates access to:

Robotics kits, Electronic components, AI resources, IoT equipment, Learning materials

Through:

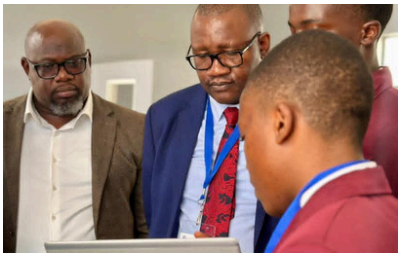
Abedai Technology shops, Approved vendors, Bulk procurement, Local manufacturing partnerships.

Our Goal

To provide access to extremely Affordable Robotics, AI and IoT educational equipment for every learner.

School → Cluster → District → Province → National → Presidential Showcase → Industry → Commercialisation

12. LONG-TERM VISION



ANRAIC becomes Zimbabwe's national innovation pipeline where:

A learner with an idea in a school club can progress, Creating Innovators, Entrepreneurs, Engineers, Technology companies, Solutions for Zimbabwe and beyond

ABEDAI SHOP

SCAN THE QR FOR CATALOGUE

AI BUY FROM WHATSAPP



LOCALLY DEVELOPED KITS

Affordable reprogramable carkits
ABEDILOOPS
ABEDIBOTT
Drones
Original LEGO

THE SHOP

FROM USD0.005

Electronics Equipments
Robotics Components
Kids Blocks
ICT Equipment
AI Resources
HBC Robotics Books
IoT Equipment
Drones
Virtual Reality





ABEDAI OPEN STEAM ASSISTANCE SCHEME

AOSAS

Tailor made project by Abedai Technologiess to facilitate assistance for robotics based projects.





1. ZIMBABWE VIRTUAL HERITAGE HACKATHON (ZVHH™)

An immersive two-player VR challenge where participants explore Zimbabwe's heritage, answer questions, and compete using smart interactive technology.

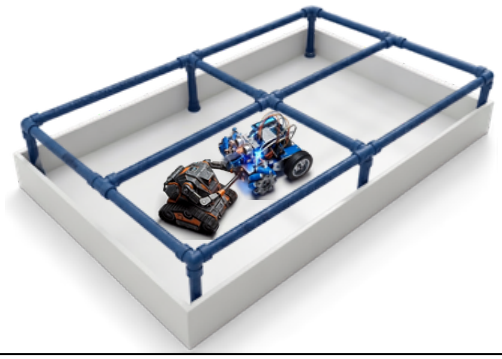
How to Play

1. Pair Up – Two players compete head-to-head.
2. Spin the Wheel – Spin to select a heritage destination or challenge.
3. Explore in VR – Use the VR goggles to discover the selected experience.
4. Answer & Score – Answer questions based on what you explored and earn points.
5. Win – Take turns through the rounds; the player with the highest score wins.

ANRAIC PHYSICAL DIGITAL GAMES

ZIM BATTLE BOTS™

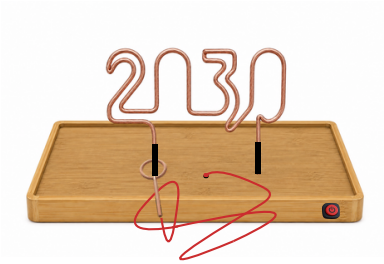
A hands-on robotics competition where kids design and build their own robots—from humanoids and cars to other remote-controlled machines—and battle in a mini stadium for points, victory, and prizes.



How to Play

1. Build Your Bot – Design and build your own robot: humanoid, car, or any remote-controlled machine.
2. Test Your Robot – Test its movement, controls, strength, and performance before the match.
3. Enter the Stadium – Compete head-to-head in a small battle stadium against another participant.
4. Battle & Score – Use your robot's design and controls to complete the match objectives and defeat your opponent.
5. Win & Earn Prizes – Winners advance through the competition, with top performers receiving prizes.







3. CRASH 'N DIE™ – Robot Soccer

An exciting robot soccer challenge where players control smart RC cars, compete for the ball, and use speed, control, teamwork, and strategy to score goals and win the match.

How to Play

01. Choose Your Player – Roll the wheels to determine the starting player, then enter your name into the system.

02. Set & Play – Select the game mode and time, then control your RC car to compete for the ball and score goals.

03. Score & Win – Play until time runs out; the player or team with the highest score wins.

4. ABEDILOOP™ – DIGITAL WIRELOOP

How to Play

1. Start the Challenge – Two players enter their names, choose the game mode and time, then take control of the probe.

2. Move, Compete & Win – Move the probe continuously from end to end without stopping or cheating. The system tracks performance and determines the winner.

5. **SMART AEROMAZE™**

A drone navigation challenge where kids build or bring their drones, navigate a maze with precision, and compete to complete the most successful passes in the shortest time.

How to Play

1. Prepare – Build or bring your drone.
2. Navigate – Fly through as many maze openings as possible.
3. Win – The fastest, most precise performance wins.

6 ANRAIC THEME

TERMLY ARRANGES FREELANCE CATEGORY

WHAT IS ANRAIC

ANRAIC stands for the Abedai National Robotics, AI & IoT Challenge. It is a premier science, technology, engineering, arts, and mathematics (STEAM) competition in Zimbabwe designed for primary, secondary, and tertiary learners and community enthusiast.

ANRAIC THEMES

To address common problems within the listed key pillars of development.

- Agriculture
- Mining
- Health
- Transport
- Construction
- Education
- Arts
- Sports
- Tourism
- And More++

HOSTED ANRAICS

ANRAIC I - 27 March 2026
lord brighton college
nyabira

theme: Smart Agriculture for Food Security and Climate Resilience

ANRAIC I

ANRAIC II - 3 august 2026
tynwald primary school
harare

theme: smart machines for precision mining

ANRAIC II

VOL. 1.0 MAR, AUG, NOV

ANRAIC

ABEDAI NATIONAL ROBOTICS, AI & IOT CHALLENGE



MINISTRY SUPPORT

Endorsement

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