



fundibots
learning & discovering solutions through robotics

CORPORATE PROFILE & FUNDING BUDGET

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ABOUT FUNDI BOTS

Fundi Bots was founded on the belief that Africa needs a local *and* social approach to its technical problems. We want to focus on the promotion, exposure, experimentation and technological growth in the fields of electronics and robotics.

OBJECTIVE

Our objective is to use technology to sensitize and create awareness in young children about the benefits of technology in day to day life. By doing this, we also aim to promote early stage career development in technology and related fields.

To achieve this, we want to:

1. Create A Place for Learning

We want to build a place where passionate African children can learn, grow and experiment with machines, gadgets and technology with no obligations. A place where curiosity is fostered and nourished, where failure is embraced as part of a learning process, where learning is purely through the science of experimentation and finally, where ideas, however crazy, are listened to and explored without bias or prejudice.

2. Create an Environment of Collaboration

We want to create an environment that fosters collaboration on both social and commercial solutions to these problems from a purely African perspective. We want to do this through tapping into our local talent-pool both in and out of academia.

STRATEGY

For a long time, we believed that something like this required huge budgets and fancy, expensive equipment, large office/workshop spaces and unbelievable logistics.

But over the last few years, we have seen the power of social collaboration, and we have seen the internet used as a tool to promote and empower the smallest of people and the humblest of goals.

We have seen people rally together to build open-source tools and technology and bring this same technology to the masses. And we have learned one fundamental thing; as individuals, we can only do so much, but the internet has made the world smaller, and closer, and we believe that with your help, we can make this dream a reality.

There is a saying in Africa that goes: "It takes a village to raise a child." We want to use this approach to gain from the collective intellectual and financial resources of the Global Village to bring technological growth to Africa.

So the strategy we have chosen is to build Fundi Bots through a concerted social effort, both local and international. With the help of donations from individuals and organizations, we believe that can build a sustainable organization that will have long-term and widespread impact on the lives of many children and youth in Uganda, and in other developing countries.

PROGRAMS & STRATEGY EXECUTION

For our first phase of growth, Fundi Bots will carry out three main activities:

1. **Daily or weekly activities at the "Core Facility"**

We are in the process of setting up a facility or lab in the outskirts of Kampala. Once fully operational, we want this facility to be open to the general public for visits and demonstrations. However, the actual use of the lab for research / development will be limited to members of Fundi Bots. This is to prevent abuse of the facility and to encourage a culture of trust and collaboration among those actively using the facility.

We will also have "Open - Days" where we can show what we've been doing and encourage our members to present their robots and other technology projects.

2. **Robotics Clubs in individual Schools**

We want to set up Fundi Bots Robotics Clubs in as many schools as possible. Starting with a select few (less than 10), these clubs will allow committed students to explore, build and work with robots and electronics as an extra-curricular activity.

These Robotics Clubs will be facilitated and overseen by Fundi Bots, and will have a dedicated School Facilitator visiting at least once a month.

Eventually, we will encourage collaborations and competitions among different Robotics Clubs to challenge and foster growth, development and awareness.

3. **Holiday Robotics Camps**

We want to start holiday camps for students to have a dedicated week of electronics and robotics fun! The events will run for a week and will include crash courses on robotics, and teams of 4 to 6 students attempting to build a robot by the end of the week. We'll have all sorts of activities and competitions to keep the students engaged.

Our first session is planned in January 2012, and we'll be posting details on our website soon.

STRUCTURE

Currently Fundi Bots has the following people on its core / administrative team:

Solomon Benge King - Founder

Solomon is an amateur roboticist and "Resident Fundi" at Fundi Bots. It was his passion and work with high school students that led to the creation of Fundi Bots, and the fulfillment of a life-long dream.

He is also CEO of Node Six, a Ugandan web solutions company and Creative Director of Elemental Edge, a Ugandan multimedia and visual effects company.

Betty Kituyi - Programs Coordinator

Betty Kituyi currently runs Cafe Scientifique, Ugandan Chapter. She is also a long time high-school educator with a lot of experience in the Ugandan education sector.

It was through her that we began doing presentations on robotics to high-school students which eventually led to the creation of Fundi Bots.

Gasper Obua - Schools Coordinator

Gasper is currently a Physics teacher at St. Kizito Secondary School.

His passion for teaching students extra-curricular science encouraged him to join the Fundi Bots team.

Volunteers

We have a number of individuals who have volunteered their time to help in any way should the need ever arise. These individuals bring with them a wide variety of strengths including; social networking and promotion, programming, engineering, social work, child care and general volunteering.

Since these people have volunteered their time, we consider them part of the team, but cannot assume that they will be fully available.

They will be included here once their availability is confirmed.

BUDGET

Robotics is a very expensive hobby. A typical robot can cost hundreds of dollars to build. For example, Nigel 5, built by Solomon has over \$700 worth of parts. Multiply that by hundreds of components for dozens of clubs, and you realize that we're faced with something extremely challenging.

While the actual components are (relatively) affordable, the cost of shipping and taxes significantly increases the dollar cost per item.

However, this is a labor of love, we work within our means, and we will spread whatever funding we get to cover costs as they arise or are deemed necessary.

Fundi Bots' budget is broken down into three core areas;

1. **General Start Up Costs**

This covers the legal creation of the entity as a Not For Profit Organization, and setup of the physical premises where we are to be based.

2. **Recurring Costs**

This is the monthly cost for salaries, rent, utilities, etc for Fundi Bots. Since we cannot initially afford to pay ideal salaries, the core team will be mostly part-time employees, with interns helping as and when the need arises.

3. **Robotics Clubs**

This is the cost required to set up and run one robotics club per school. Our plan is to start with under 10 Robotics Clubs in 10 schools, and then scale to other schools once we have a working model in place.

These clubs will be facilitated by Fundi Bots, and we will be sending one School Facilitator at least once a month to visit / mentor / interact with the Club Members.

DONATING OR SPONSORING

Donations or sponsorships from \$5, \$10, \$20 and \$50 to more than \$ 5000 are welcome. Almost 80% of the electronics components we need are below \$10. All the books we need are between \$10 to \$50. We'll collect every single cent and put it to good use.

*In fact, **we'll account for every single cent** and avail that information online through our website (www.fundibots.com)*

Below each budget section, you will find a handy breakdown of what your donation could do for Fundi Bots.

STARTUP COST - CORE FACILITY

Item	Qty	Unit Cost	UGX Amount	(USD)
Legal & Registration	1	1,500,000	1,500,000	\$ 500
Rent (6 months)	6	800,000	4,800,000	\$ 1,600
Internet Setup	1	450,000	450,000	\$ 150
Meeting session chairs/stools	30	20,000	600,000	\$ 200
Basic Decor	1	500,000	500,000	\$ 167
Low End Computers / Laptops	6	800,000	4,800,000	\$ 1,600
Work Station (Desk + Chair)	6	300,000	1,800,000	\$ 600
Electrical Wiring	1	500,000	500,000	\$ 167
Miscellaneous	1	1,000,000	1,000,000	\$ 333
Total Start Up			15,950,000	\$ 5,317

STARTUP COST - ELECTRONICS & HARDWARE - CORE FACILITY

Items	Pieces	UGX Amount	(USD)
<u>Basic Electronics Components</u>	1191	3,300,000	\$1100
<u>Arduino Components</u>	15	3,600,000	\$1200
<u>Fundi Bots - Hardware</u>	4258	21,750,000	\$7250
<u>Fundi Bots - Education & Books</u>	25	2,550,000	\$850
<u>Fundi Bots - Special Robotics Sensors</u>	299	5,700,000	\$1900
Total Start Up		36,900,000	\$12,300

What can sponsorship of \$5,000 do?

- It would pretty much cover our entire start-up cost for the facility (including rent for six months, which would be very awesome) OR
- Pay for half our electronics & hardware budget (which would pretty much get us off the ground) OR
- Buy us all Basic Electronics Components, Arduino Components, Books and Robotics Sensors that we need.

What can sponsorship of \$2000 do?

- Cover our startup legal costs and rent for 6 months OR
- Buy us all the furniture we need, all the books we need, setup our internet connection and help us do electrical wiring for the entire facility. OR
- Buy all the computers we need, pimp up our facility (basic decor) and set up our internet.

What can sponsorship of \$1000 do?

- Buy all the furniture we need and handle the interior decor OR
- Buy two computers (after some serious bargaining) OR
- Cover our legal expenses, setup our internet, handle interior decor and electrical wiring. OR
- Buy all the books we need and set up our internet

What can sponsorship of \$500 do?

- Cover our legal costs OR
- Buy 5 work stations (desk + chair) OR
- Buy one computer, setup our internet and buy 10 lab stools OR
- Handle electrical wiring, pimp up our facility (basic decor) and set up our internet.

What can sponsorship of \$100 do?

- Buy two to five books OR
- Buy 15 lab stools OR
- Buy lots of electronics components OR
- Cover our basic decor (we'll make it work somehow)

What can sponsorship of \$10 do?

- A lot. You'd be surprised. Almost 80% of the electronics components we need are below \$10. Some are even below \$2 for a pack of ten or twenty.
- All the books we need are priced between \$10 to \$50 each.

RECURRING COSTS

Item	UGX Amount	(USD)
Director	1,000,000	\$ 333
Program Coordinator	700,000	\$ 233
Schools Coordinator	700,000	\$ 233
Interns / Aides	500,000	\$ 167
Interns / Aides	500,000	\$ 167
Administrator	500,000	\$ 167
Salaries Sub Total	3,900,000	\$ 1,300
Rent	800,000	\$ 267
Internet	300,000	\$ 100
School Facilitator Allowances	600,000	\$ 200
Utilities (Power, transport, water)	300,000	\$ 100
Electronics Replacements + Re-stocking	500,000	\$ 167
Facility Sub Total	2,500,000	\$ 834
Total Monthly Recurring	6,400,000	\$ 2,134

What can sponsorship of \$5,000 do?

- Pay our rent and internet for an entire year OR
- Pay core salaries for 6 months OR
- Cover facility expenses for 6 months OR
- Run our entire facility for two and a half months OR

What can sponsorship of \$2000 do?

- Cover our core salaries for 2 months OR
- Run our entire facility for one month. OR
- Cover facility expenses for 2 and a half months OR
- Pay our rent for 7 months OR
- Cover our School coordinator's salary for 8 months.

What can sponsorship of \$1000 do?

- Cover core salaries for 1 month OR
- Pay our internet for 10 months OR
- Pay internet and utilities for 5 months OR
- Restock our electronics components for six months OR
- Facilitate our School Facilitators for 5 months OR
- Cover an intern's salary for half a year.

What can sponsorship of \$500 do?

- Cover an intern's salary for 3 months OR
- Restock our electronics components for 3 months. OR
- Pay our internet for 5 months

What can sponsorship of \$100 do?

- Pay for our internet for 1 month OR
- Pay for utilities for 1 month.

What can sponsorship of \$10 do?

- Transport, facilitations, utilities, electronics components, all these are basically a collection of small bills which add up.
- Almost 80% of the electronics components we need are below \$10. Some are even below \$2 for a pack of ten or twenty.

SCHOOL ROBOTICS CLUBS

SCHOOL CLUB STARTUP COST - BARE MINIMUM

Item	Qty	Unit Cost	Amount	Amount
Computer	1	800,000	800,000	\$267
Books	-	200,000	200,000	\$ 67
Arduino Kit http://www.sparkfun.com/products/10173	2	275,000	550,000	\$183
Electronics Toolkit (local)	1	250,000	250,000	\$83
Electronics Components	1	500,000	500,000	\$ 167
Hardware Components	1	700,000	700,000	\$ 233
Total Start Up			3,000,000	\$ 1,000

SCHOOL CLUB RUNNING COST (MONTHLY)

Item	Qty	Unit Cost	Amount
Facilitator	1	150,000	150,000
Electronics Repairs + Replacement	1	100,000	100,000
Total Running Costs			250,000 (\$ 85)

What can sponsorship of \$2,000 do?

- Start up a school club and run it fully for 1 year.

What can sponsorship of \$1000 do?

- Comfortably start up a school club OR
- Keep a school club running for 1 year

What can sponsorship of \$500 do?

- Keep a school club running for 6 months OR
- Buy Electronics (Toolkit AND Components) AND hardware components for 1 school club OR
- Buy a Computer AND an Arduino Kit for 1 School Club OR
- Buy a Computer AND Hardware components.

What can sponsorship of \$ 100 do?

- Run a school club for 1 month OR
- Buy an electronics toolkit for a school club OR
- Buy enough books to keep a school club busy for a long time

What can sponsorship of \$10 do?

- \$10 can allow us to make occasional fees (like Robotics Camp fees) optional for gifted but underprivileged students / schools.
- Almost 80% of the electronics components we need are below \$10. Some are even below \$2 for a pack of ten or twenty components.
- Also, all the books we need are priced between \$10 to \$50 each.

SUMMARY & CONTACTS

The journey of a thousand miles starts with one small step. We've started this know we have a huge task ahead of us, but we're dreamers. And we're also doers. We've brought this dream to life, despite tremendous odds (read "The Story of a Dreamer" on our website - www.fundibots.com).

No matter the limitation, no matter the obstacles, we'll take this dream forward and built it into what we believe it should be.

And we'd like you to be a part of this amazing and exciting journey.

So, come, walk with us. Let us build Fundi Bots, one step at a time.

If you would like to assist, or would simply like to get more information about Fundi Bots, please contact:

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Fundi Bots

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