

JUDGES



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WHERE GREAT IDEAS MAKE IT



SA INNOVATION
SUMMIT.

INVENTORS GARAGE

INTRODUCTION

In 2012 the SA Innovation Summit started the Inventors Garage Competition as a platform for startup inventors to showcase their ideas, products, and prototypes. The competition is designed in such a way as to provide maximum exposure to the inventors and offer them the opportunity to build out their networks and connect with the right people to create future business opportunities. Entrepreneurs are invited to enter their innovations annually. After an initial round of judging, finalists are given the chance to exhibit at the SA Innovation Summit. At the exhibition they will be evaluated by a panel of judges, and the top finalists will win numerous prizes.

We hope the competition plays a role in growing entrepreneurs as well as inspiring people to engage actively in developing the country's economy by fostering successful entrepreneurs.

We would like to congratulate all the inventors listed in this booklet on a job well done. Innovation is a journey not to be undertaken by the faint of heart as the road is a difficult one.

FINALISTS

GreenFence

Dave Pons | dave@mut.ac.za | (082) 200-9537

GREEN FENCE is a low cost plastic fence that is made from recycled plastic and it has embedded aluminium wires that are powered by a PV cell that results in a solar charged electric fence. The game changing feature is that it has plastic attachment clips that connect the fence to shrubs so that no fence poles are required.

Continuous Metal Electrolyser

Ryno Pretorius | rynop@frpd.biz | (076) 560-8180

This innovation describes a process that transforms the standard batch, or semi-batch, aqueous electro-winning process into a continuous process. This will not only reduce cost of production due to a decrease in production down time, but also reduce the risk associated with operators working with heavy machinery and has the potential to minimise process inefficiencies associated with high current densities. The process has been demonstrated, patented and is currently undergoing a scale-up.

ASK-a-Taxi

Mfundo Zondi | mfundozondi@gmail.com | (083) 778-5325

ASK-a-Taxi is a crowd-sourced mini-bus taxi route mapping APP, to help minibus taxi commuters (or those who wish to use this intimidating but essential service) find out about taxi routes, taxi ranks and taxi fares. The app is free and only available on Google Play at the moment and with good fortune and our hard work, it will be available on other platforms too. The new version of the app is currently in development.

NuMaths Kids App

Lungile Maile | lmaile@nubiansmarts.com | (078) 671-5454

We have combined the science behind addictive mobile games and holistic learning to create educational games that will ignite the love of learning in our children. The games are developed around the South African curriculum so that children are able to practice the concepts taught in school in an entertaining way. We also designed the games in a way that allows parents and teachers to track the progress made by the children and further more the games can be played whilst offline.

Hot Spot

Sandiswa Qayi | sqayi@aetafrica.co.za | (061) 759-6428

PVC made buoyant sleeve that can be retrofitted on any geyser element both horizontal and vertical geyser that transfers hot water from the bottom of the geyser to the outlet using thermosiphon by bypassing stratification point of the geyser whereby the cold water sinks and hot water rises. The product allows customers to heat the volume of water they need when they need it by reducing energy consumption and electricity used thereby increasing geyser energy efficiency.

The Indoor Evaporative Food Cooler

Killashandra Coetzee | odell@highveldmail.co.za | (079) 586-1192

The indoor evaporative food cooler utilises evaporative cooling to assist with the storage of perishable food inside the home. It is made from recycled material and uses solar power.

Lampellent

Christo Rossouw | christo@rossouwtech.com | (076) 309-8988

Lampellent is an insect repellent heater that clips onto a light bulb. The device is equipped with a heat sink that collects heat energy from almost any type of lamp to vaporise insecticide in mat and liquid form, making any lamp an insect repellent. The product is compatible with most mat or liquid repellent refills available on the market. No electricity is required as heat from the lamp is recycled for the product to function. Mosquitoes kill more than 725 000 people each year!

Goll eFrubot Operating System

Kenneth Miya | Kennethmiya1@gmail.com | (071) 236-8406

We have created the first African operating system (Goll eFrubot) and its applications (Phone and Message) for digital phones (Teleport system) that made possible to democratise prepaid communications world wide and is now used by 90% of the world market of ICT. It is going to compete with World known operating system and their applications. Its hardware device have won an awards on BBC and CNN, HTXT.Africa, and Popular Me.

Si Realities

Mbangiso Mabaso | sisandaenergylab@gmail.com | (063) 170-7952

Si-Realities App is the cost effective science laboratory for learners who study Science, Technology, Engineering and Mathematics (STEM) Subjects. Si-Realities turns a paper, t-shirt and cap with a special QR code into the state of the art science lab with variety of experiments that learners can learn from. It uses augmented and virtual reality technology to layer digital content into a physical world that the learner and the teacher can interact and manipulate.

Moonshine Reflective Spray

Memphis Kaotsane | memphis.kaotsane@gmail.com | (073) 304-1169

Moonshine is a long lasting reflective spray for stray animals roaming around our roads esp in the rural areas. Objective is to avoid accidents caused by strayed animals next to the roads.

The Decentralized South African Tender Process

Theoshan Moodley | theoshan@gmail.com | (071) 850-2650

In a bid to fight corruption with regard to government tenders, a decentralized application to facilitate the tender process through Blockchain technology will be the most applicable solution. An open and distributed ledger showing who has won a tender and how the process that was implemented to ensure they meet the criteria will prevent underhanded dealings or pinpoint those parties involved. The ledger will be open to scrutiny from anyone in the public domain.

Spinetector Suit

Sello Malinga | sellomalinga21@gmail.com | (071) 270-0448

The Spinetector Suit is a protective costume to lessens injuries on vertebral column, the rib cage and the thoracic cavity of underground mine workers when there is minor mine earthquakes or vibrations on the earth's crust. It can also be worn by construction workers who may be vulnerable to the impact of heavy equipment or machinery. The Spinetector zipped up top is made with sweat-wicking mesh fabric and lightweight EVA foam pads to help keep you dry, cool and protected from impacts.

Advance Solar Bin Compactor

Sizwe Mthethwa | Philanimthethwa1@gmail.com | (078) 237-1235

Our innovation is a advance solar bin compactor that can Reduce both cost and collection times by utilising the netBin fill level monitoring system. Automatic monitoring of bins provides timely warnings when they are full, permitting intelligent route planning for collections ensuring no visit is wasted and unsightly overflowing bins are a thing of the past.

Connect Me

Khulekani Mncube | info@alphatobeta.co.za | (082) 572-8659

An Information System for the Public Transport Sector. Turns the gold mine of customer data into value for the business through information alchemy. Management can use the information for decision making such as demand planning, pricing adjustments, training, Marketing and sales. The system is paired with a mobile cashless payment system.

SolarTurtle

James van der Walt | James@SolarTurtle.co.za | (082) 478-2478

The SolarTurtle is an ultra energy platform solution in a box for high crime areas. Shipping containers are converted into small, mobile solar power stations. PowerTurtles are designed for off-grid utility, shop or office space where theft of solar panels is an issue.

Solar-E-Cycle

Roger Christen | solarelectriccycles@gmail.com | (438) 995-0194

Solar-E-Cycle is a solar powered vehicle for Africa that provides mobility of some 50 km every sunny day to off-grid populations and powers their homes at night. With GPS tracking on a Pay-as-you-go system it is accessible to even the poorest of the poor in off-grid rural communities. It is being deployed in Kenya in business units of 100 vehicles covering a 2000km² service area. Vehicles upload key operating data to the internet and can be controlled remotely.

Instant Lighter Wood

Martin Ngcobo | mrpolishandproduct90@gmail.com | (072) 940-4961

A new revolutionary instant lighter pieces of wood, that is got three good features, The firstly features this wood doesn't require fire starter products e.g blitz, paraffin etc to burning it you can use matches or gas lighter. The second feature it prepared to produce premium charcoal for braai and fire places, that means is coming with the new method of manufacturing charcoal. The third feature it is environmental friendly.

Green Extraction of Plant Nutrients for Value Food Additions

Luke Chimuka | luke.chimuka@wits.ac.za | (072) 497-8041

Green Ex Pty Ltd specialises in providing a Moringa liquid concentrate and products. Extraction uses water using a patented extraction technology. The liquid concentrate is rich in nutritional and herbal compounds. The Moringa liquid concentrate is used to fortify beverages and dairy products making herbal Moringa energy drinks, herbal Moringa vitamin water, Moringa ice tea, Moringa drinking and normal yoghurt and Moringa mageu. Green Ex Pty Ltd is wholly black owned.

Syafunda DigiLab

Zakheni Ngubo | nzakheni@syafunda.co.za | (076) 065-8048

A Digital Library for schools and public libraries pre-loaded with digital content allowing students to download and stream e-books, video tutorials, past papers and worksheets at high speed (no buffering) from our library of free and premium content in education, entrepreneurship and IT on their mobile device for free without the cost or access to internet or data with real-time data analytics to track usage and performance.

Water Rescue FOD1000 Grey Water System

Bernard Wessels | bernard@waterrescue.co.za | (082) 897-4130

A unique grey water system with build-in fat trap. Connects household flow of used/grey water (all except toilets) to system, treatment with Eco Environmental Friendly bacteria, green system, no chemicals, no filters, low maintenance. Treated grey water is stored in water tanks for effortless use.

MediCube

Neo Hutiri | neo.hutiri@technovera.co.za | (082) 861-7009

MediCube, a smart locker system that enables patients to collect their repeat chronic medication in seconds instead of waiting hours on queues. Pre-packed medication for a patient is loaded into the smart locker, the system then sends an SMS with a one-time-pin (OTP) to the patient. Patient would then come to a collection unit, authenticate using an OTP with their cellphone number. A cubicle that has their medication would then pop-open, thus facilitating a collection. It tracks all collection.