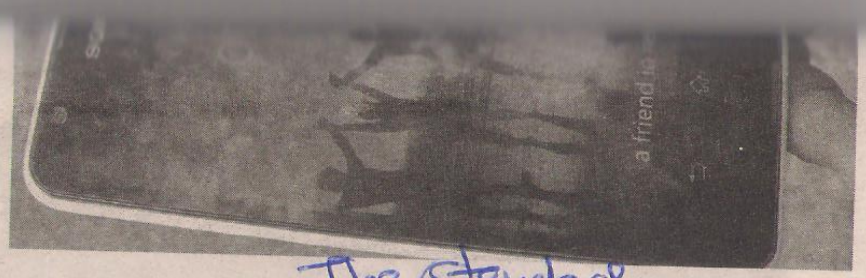
go a sheng word meaning speak up constitutes both educative and preventive features. The application's educative platform provides information to help monitor danger levels to GBV, how to be safe, and get help from the police and health officers as well as access counseling services.

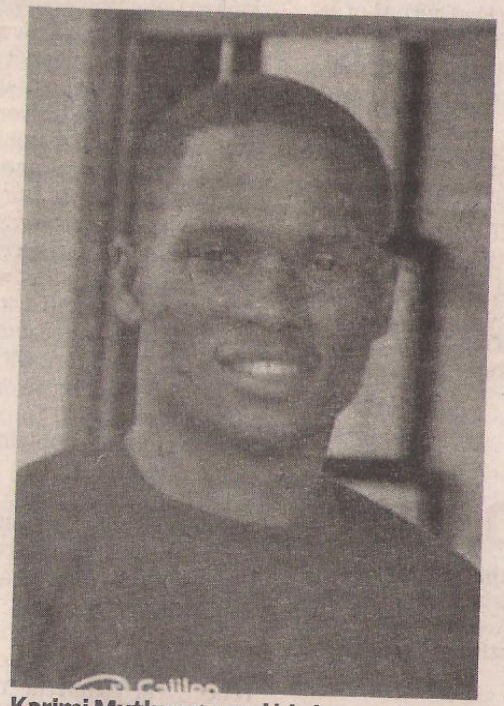
their affliction. I receive a lot of cases of that nature and sometimes it takes a lot of cajoling for someone to open up," she said.

Dr Parsitau notes that the team will be working with other partners in the anti-GBV fight to promote use of the App in both urban and rural areas.



The Standard. Thursday, August 31/8/2017

Invention to monitor water levels in tanks



Karimi Muthungu and his innovation far right [Courtesy, Standard]

A Bachelor of Education Science student at Karatina University has invented a gadget that will help users automatically monitor and regulate water levels in large and medium tanks. Muthungu Karimi, 24, came to the limelight after he developed a flood detection system specifically targeted to areas such as Budalangi, Ahero in Kisumu county and Mombasa.

By Donald Magomere
hashtag@standardmedia.co.ke

Muthungu, also a Computer Engineering student at Zetech University, says he developed interest in scientific inventions when still in high school and actively participated in science congresses.

"Knowing the amount of water in an overhead tank can be a tedious task. Usually, one will end up climbing up the stairs to the tank and check the level manually. Some also prefer to stay close and note the speed of flow of water inflow pipe. The two manual processes are tedious and tiresome to most tank owners and water vendors," he explains.

"It could even lead to injuries or death when the manual process of verification of water level is not done safely," the developer adds.

The invention baptised Ultrasonic Water Level Monitor is fitted with an ultrasonic sensor which can measure the distance to an object by using sound waves. It measures distance by sending out a sound wave at a specific frequency then waits for that sound wave to bounce back.

"By recording the elapsed time between the sound wave being generated and the sound wave bouncing back, it then calculates the distance between the sensor and the water level inside tanks," Muthungu says.

According to him, the sensor is also connected to a USSD platform that allows it to record and send correct readings on the levels of water inside tanks at a specific time as spelt out by the owner.

"Ultrasonic water level monitor measures the water level in a tank, displays the reading and sends the owner an SMS directly to his or her mobile phone," he quips.

Though still in its initial stages of development, Muthungu says his lecturer and mentor Dr Wanjau Kenneth is giving him the guidance as a team member on commercialisation of the water monitor.