

IEK decided to engage students in their activities by organizing for ***IEK Engineering Students Competition***. This was intended to encourage members of Engineering Student Associations to prepare and present meaningful papers and presentations on subjects related to the various engineering disciplines. Design Competition provides a platform for Student Members to present their solutions to a range of design problems - from everyday household tasks to groundbreaking space exploration. Each of the student is required to design, construct and operate a prototype meeting the requirements of eradicating human determined problem statement.

Students from various universities within the country presented their papers to IEK on 28th April 2014, among them was Mr. George Ouma, a fourth year student form University of Nairobi in the Department of Electrical and Information Engineering. The top three students including Mr. George Ouma were given opportunity to present during the 21st annual engineers' conference which was held at Leisure Lordge Resort, Kwale County that started on May 7th 6 9th 2014. George was declared the winner of the first ever IEK Engineering students competition as a result of his Auto-Run Cellphone innovation which was the most outstanding innovation designed by a student.

The Auto-Run Cellphone is an innovation that enables your cellphone to charge itself as you make phone calls, texting and browsing. The device uses radiation emitted by the phone, which it converts into electrical energy and regulated based on the phone's specifications. The more you use your phone, the more energy your battery gets hence it becomes an auto-run phone. The process involves a circuit which acts as a wave-electrical converter. Its function is to detect any magnetic field then convert about 90% of it into electrical energy.

The presentation was graded based on technical content, overall presentation and oral and visual performance. Being that George's presentation was the best, he was chosen to attend the *World Engineers Summit* to be held in Nigeria. The same project has also been demonstrated to the H.E the president Uhuru Kenyatta during the lunch of Uwezo Fund. George has also designed a project based Home Security System that has been presented and approved by many dignitaries who saw it during its presentation including the head of state honorable Uhuru Kenyatta and cabinet secretary for education during the launch of Uwezo Fund for Youths and Women that was held on 8th September 2013. The same project was presented during the youth Enterprise trade fair at KICC on 25th to 27th November 2013 and also on 15th annual IEEE Kenya Engineering competition held on 7th to 8th November at Oshwal center of which the president for IEEE Mr. Roberto approved it.