SOLAR CHARGED AUTOMATED DRONES USING OPEN-CV PROJECT WILL REVOLUTIONIZE THE RECOGNITION OF THE INSTITUTION IN ZAMBIA

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ABSTRACT

In this paper I referred the Solar Charged Automated Drones Using Open-Cv Project Will Revolutionize the Recognition of the Institution in Zambia. The Tokyo-based center will use drones capable of covering long distances at high speeds in Zambia. It aims to improve the medical services in the country by flying medical products such as AIDS test kits to areas that are hard to access because of bad road conditions. This will be the first time Japanese drones will be used overseas for the purpose of medical support. Test flights are scheduled to be carried out in Zambia in April, and full-fledged operations to start at the end of the year. The center is to play a leading role in coordinating with the Zambian government, with financial support being provided by the Japan International Cooperation Agency. Sony Corp. group company Aerosense Inc. conducts surveys and other activities through the use of drones. The Tokyo-based firm, which will be in charge of the development and operation of the drones, is to transport medical supplies for a fee. Because of elevated HIV/AIDS infection rates-13 percent in Zambia-the center started sending medical staff to the country in 2006.

INTRODUCTION OF DRONES

Drones are being used in used in various industries. In Zambia however, these devices are used mostly in the music industries as most are equipped with HD cameras.

HOW DO DRONES WORK AND WHAT IS DRONE TECHNOLOGY IN CAMERA

What is a drone and how do drones work is answered here in this easy to understand in solar charged. Drone technology is constantly evolving as new innovation and big investment in solar-powered are bringing more advanced drones to the market every few months. Below, we discuss UAV technology in solar-powered on the most popular drones on the market, which have all the latest drone technology. Most drones will have very similar systems incorporated in solar-powered.

Unmanned aerial vehicle technology covers everything from the aerodynamics of the drone, materials in the manufacture of the physical UAV, to the circuit boards, chipset and software, which are the brains of the drone solar-powered.

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The drawbacks of the currently existing drones are:

a. They need to be manually operated.
b. They cannot recognize targets without aid of human operators.
c. They run on electrically charged batteries (Hydro-power).

ADVANTAGES OF THIS PROJECT:

a. These drones will contribute to the economic development of Zambia, industries can use them to carry out tasks that otherwise would need a human operator on their own. For example, the farming industry can use the drones to monitor the health of the crops and spread insecticides on the crops.
b. The health industry can use it to monitor rural areas and spread disinfectants in places that would be hazardous for humans.
c. The drones will be solar charged, this will reduce the usage of hydro power in Zambia, contribute to the solar power campaigns by the government. Being solar charged they can run the whole day.
d. Military use. The military can leverage on this technology for reconnaissance.
e. Fighting crime. The service can use this technology to conduct investigations.
f. The defense force and police service can use it in VIP protection.
g. Lastly this project will revolutionize the recognition of the institution.

OPERATIONS

a. The drones will have an option to run either manually or fully automatic.
b. The drones will only need an image of the target and/or the area of reconnaissance and time frame.
c. The drones will have an HD camera.
d. The drone will be equipped with Wi-Fi.

REQUIREMENTS

1. Potensic T25 GPS Drone, FPV RC Drone with Camera 1080P HD WiFi Live Video, Auto Return Home, Altitude Hold, Follow Me and Carrying Case or any drone with a camera.
2. Micro solar panel.
4. Electricity & electronics kit for Robotics.

REFERENCES

t_wg3_report_mitigation_of_climate_change.htm (accessed on 9 September 2014).


[6]. https://www.google.com/search?q=Solar+Charged+drones&source=lnms&tbm=isch&sa=X&ved=0ahUKEwjtv65ryrjAhXzQxU1HIU0wCJgQ_AUIECgB&biw=1366&bih=608.