

About

Founded in 2004, GEOSAT Aerospace & Technology Inc. specializes in the technology development and innovative application of Unmanned Aerial System (UAS). We are a total solution provider with unique in-house system integration capability to vertically integrate the upstream (research & development and production), mid-stream (operational services) and downstream (data analysis) value-added service in East Asia and Southeast Asia.

GEOSAT has 200 experts in all kinds of fields, integrating aerospace engineering, ICT & telematics, composites manufacturing, remote sensing, artificial intelligence, spatial informatics and other technological expertise. We offer unmanned aerial system (fixed-wing aircraft and VTOL) and key subsystems (flight control system, ground control station, data transmission system and payload equipment). Our in-house engineering labs can integrate the vehicle customization and payload system according to the special needs of customers, providing complete solution with warranty and product support services. The flight operation team with our own fleet provides customer training and customized flight services in aerial photogrammetry for spatial information analytics, disaster assessment and relief management, environment monitoring, urban planning, land surveying, facility security, inspection of large infrastructures, resource exploration, and other solutions.

www.geosat.com.tw

Solution

UAV agricultural spray application test plan

Solution Description

This project will develop an integrated drone service platform, and carry out drone agricultural spraying operations and SOP establishment. The agricultural spraying needs of farmers or agribusiness groups will be matched and tasked through the integrated platform. Geosat will test the project during the plan and carry out agricultural spraying operations in the paddy field. We cooperate with TARI and TACTRI to carry out related tests. Flight data generated by drone agricultural sprays can be transmitted back to the public department through the integrated platform to assist relevant personnel in the supervision unit to control.

About

Artificial intelligence (AI) and fish farms, it is two different sectors obviously. Through innovation with the integration of AIoT platform- 『Aquadlink』, Quadlink Technology is increasing total aquaculture industry value in Taiwan.

Quadlink Technology Inc. is a company developing "Internet of Thing (IoT)" systems by using sensors, computer/smart phone, cloud and big data technologies to optimize aquaculture production and distribution. This experienced team with members from wireless communication and cloud computing has been in business for over 6 years. We combine talents and technologies from Taiwan, Europe and the USA, focusing on the IoT for smart aquaculture. By adopting the IoT technology, the barrier for the young generation to get into aquaculture has been reduced. The aquaculture becomes more fun and less labor-intensive. By transforming the traditional fish farming industries as well as creating innovative business model with the application of IoT, Quadlink Technology is capable of maximizing the value derived from within.

QAM300-DE, the Smart Water Quality Monitoring System of Quadlink. We are proud to announce that it bears distinct features from the traditional experience-based measures in fish farming, which often results in overdosing and overfeeding. Instead, this floating device takes real-time water temperature, dissolved oxygen (DO), pH, oxidation-reduction potential (ORP) and salinity, and then transmit the data in any handheld device at hand. Furthermore, when combined with QAM300-OC, the Smart Equipment Monitor & Control system, fish farmers can easily turn on the auto feeding mode and waterwheel pumping by setting thresholds of DO and other parameters. To complete the task, it is only a portable device installed with our App that is needed - real-time status monitoring, risks prevention and loss minimization. The environment of farms and the growing process are precisely monitored and controlled by our platform. Eventually the quality of food is better ensured. This is what we claim "For better food and environment".

Quadlink has implemented more than hundred sets of smart aquaculture devices so far. In terms of geographical coverage, in Taiwan, we have covered from Hsinchu to Pingtung, Hualian to Taitung, overseas we have many Southeast Asia countries, including Indonesia and Philippines and Brunei, etc. In terms of cultivation breeds, there are various kinds including: Grouper, Queensland Grouper, Milk Fish, Japanese Seaperch, Mullet, Common Tilapia, Sixfinger Threadfin, Ayu, Eel, White Shrimp, Tiger Prawn, Redclaw Crayfish and Hard Clam, etc. Quadlink assists fish farmers in monitoring risks, controlling parameters and establishing standard cultivation model—the result is self-evident: yields increased by 30%, energy saving by 50% and feeds saving by 30%.

Quadlink Technology devotes itself not only to efficient cultivation, but also to effective selling. Aside from water monitoring system, Quadlink also offers food storage & logistics monitoring systems for processed fishery products. With the transparent data open to the end-customers, trust and reliability and quality is thus established between the producers and consumers two sides.

www.quadlink-tech.com

1 Solution

Aquadlink-Smart Aquaculture Application Platform

1 Solution Description

- ▶ Automated IoT sensors to monitor data uninterrupted.
- ▶ When the water quality is abnormal, provide voice, SMS notification real-time alert.
- ▶ Solar power, 7-24 and 365 days and nights.
- ▶ Flexible specification by different needs.
- ▶ Sensors waterproof IP-68 rating, high reliability.
- ▶ Sensor patented bio-anti-fouling.
- ▶ Complete data collection, effective breeding resume records and history of production data.

2 Solution

Aquadlink-Food Storage Safety(FSS)- Smart Monitor Platform

2 Solution Description

- ▶ It's able to long-term monitoring & control the temp. & humidity of freezer sections & fridge sections.
- ▶ Meet the criterion of HACCP.
- ▶ Avoid any stale foods and loss.
- ▶ Save manpower, save cost.

About

Y-FA TECHNOLOGY INC. was founded in 1997. Specializing in the production of Flexible printed circuit boards (FPC): singlesided, double sided, multilayer, component board and rigid-flex board. Y-FA is committed to the development of new processes and new materials based on its self-demand and breakthrough. Furthermore, cooperate with domestic factories, foreign factories and research institutions to grasp the trend of the times, obtains technology and information opportunities and build a winning strategy with global competitive thinking. To be a professional company with highest-quality printed circuit boards in the world's and become "The giant of tomorrow, the pride of Taiwan."

Y-FA apply the good agricultural and collection practices (GACP) to the field of technology agriculture. The brand "窩心菜舖" was founded in 2015. Adhering to the concept of the same source of medicine and food, Y-FA invest in intelligent agricultural cultivation. At the same time, it continues to develop a new generation of refined agriculture, in line with the business philosophy of "non-toxic, healthy and green". What we want to convey to consumers is healthy, environmentally friendly and green foods. We strive to make ourselves a pioneer in Taiwan's green technology agriculture and find a pure land for food.

Y-FA business projects include Plant Factory package plant export, plant factory contractual farming system and intelligent greenhouse monitoring system. Plant Factory package plant export: engage in planning and construction of OEM and ODM of Plant Factory. Plant factory contractual farming system: Customized medicinal plant nursery and planting. Intelligent greenhouse monitoring system: In response to customer demand for customized development.

www.yfa.com.tw

Solution

Intelligent technology applied to food safety traceability of medicinal plants.

Solution Description

Traditional agriculture is susceptible to the weather, so quality and yield cannot be controlled. On the other hand, about 70% of domestic medicinal plants rely on foreign imports, and the phenomenon of heavy metal residues is common and affects people's food safety and healthy.

This project starts with the establishment of a laboratory, uses "Gastrodia elata" as a demonstration medicinal plant, and apply GACP. By monitoring the environment of medicinal plants at any time, the environment and fertility status of the medicinal plants are observed, and the best is analyzed through AI technology. Intelligent production control so that medicinal plants can be produced throughout the year, and the quality of medicinal plants is predictably, and an intelligent resume platform for medicinal plants has been established to record the data of growing crops and product shipments to achieve the goal of food safety and traceability.

The implementation of this project produce 7 major service items, namely: "Medicinal Plants Planting Related Technology (including hardware and software)", "Building an Intelligent Monitoring System for Medicinal Plants", and "Customized Medicinal Plants Seedlings, Planting, Extraction and other services", "Nutrient Solutions for Planting Medicinal Plants", "Optimized Growth Data Analysis Products for Medicinal Plants", "Intelligent Resume Platform for Medicinal Plants", "Medicinal Plants Produced in Accordance with GACP".