M5STACK-NYP Engineering Project Winners: Arduino ESP32 Takes Center Stage

San Francisco, California Jun 20, 2023 (Issuewire.com) - Nanyang Polytechnic (NYP) recently revealed the top four teams in the M5STACK-NYP Engineering Exploration Project, showcasing innovative solutions using Arduino ESP32, M5Stack's technology and IoT controllers.

The competition was part of a 30-hour course where students designed smart technology solutions with M5Stack's products, including Arduino ESP32 controllers and sensors. The course aimed to empower students in creating smart solutions for sectors like retail, urban farming, and smart factories.

Here's a quick look at the winning projects:

- **Smart Energy Efficient Urban Farming**

This project uses sensors to create a sustainable urban farming environment. It features a height checker to monitor plant growth, an automated sunroof to control natural light, and an air conditioner to regulate temperature and humidity.

- **PEST TERROR**

PEST TERROR offers an automated pest control system for urban farms, using Arduino ESP32, IoT controllers, and sensors. It employs an antenna system and a robot that uses garlic-infused water and ultrasound waves as natural repellents.

- **Bee Integration into Commercial Urban Farms**

This project optimizes pollination in commercial urban farms by integrating bees through the use of sensors. It features a checkpoint system for monitoring bee movement and sensors to track the health of the bees.

- **Urban Farming Overseer**

Urban Farming Overseer enables remote monitoring of urban farms, employing Arduino ESP32 to measure conditions such as ammonia levels in fish farms and moisture levels in soil, allowing for efficient maintenance.

M5Stack expressed enthusiasm for the students' creativity and innovation, recognizing the far-reaching implications of their work in technological advancement.

These projects demonstrate the powerful capabilities of Arduino ESP32 and M5Stack's technology in addressing real-world challenges. By harnessing the potential of IoT and smart technology, NYP's students have created cutting-edge solutions that not only have practical applications but also pave the way for future innovations in various sectors.

M5Stack and Nanyang Polytechnic will continue to foster an environment that encourages creativity, critical thinking, and practical problem-solving skills among students. The continued collaboration between educational institutions and technology partners is vital for nurturing the next generation of

innovators.

For more information about the M5STACK-NYP Engineering Exploration Project and to view the students' projects, visit the links provided:https://shop.m5stack.com/blogs/news/m5stack-nyp-engineering-exploration-project-winners-announced-meet-the-top-4-teams

Media Contact

M5STACK

contact@m5stack.com

Source : M5STACK LLC