Revolutionizing Drone Flight Software with Cutting-Edge Features and Automation

BACKGROUND

Trendsic Corporation, after conducting an extensive market research, identified a significant gap in the drone flight software industry. Existing solutions did not offer the required features and capabilities to manage large-scale drone operations efficiently. To address this need, Trendsic developed a custom drone flight software called **Soarveyor**.

CHALLENGES

The main challenges faced by drone operators using conventional mission software include:

- **Limited support for managing hundreds or thousands of mission plans, leading to tedious navigation and selection processes.**
- **Lack of full automation and cumbersome manual drone control during flights.**
- **Limited integration with external data sources for improved accuracy.**
- **Absence of a rule/permission-based system to manage drone flight operations effectively.**
- **No advanced features like machine learning for auto-detection of objects during missions.**

SOLUTION

Trendsic's **Soarveyor** software introduced several innovative features and improvements to overcome these challenges:

- **Automated Mission Queue:** *Soarveyor automatically queues flight missions for designated pilots/operators, enabling effortless mission management and navigation.*
- **Custom Mission Templates:** *Pre-designed mission templates allow operators to drag and drop mission plans over a point of interest. The drone then automatically performs the flight and captures videos, eliminating the need for manual drone control and increasing productivity.*
- **API Integration:** *Soarveyor seamlessly integrates with various APIs to provide access to relevant external data, enhancing flight accuracy and mission performance.*
- **Rule/Permission-Based System:** *The software offers a comprehensive rule/permission-based system to manage drone flights effectively, allowing operators to work exclusively with their assigned tasks.*
- **Machine Learning Module:** *Soarveyor's machine learning capabilities enable drones to auto-detect objects for their current missions and autonomously perform flights and image/video capture.*
- **Online and Offline Functionality**: *Soarveyor is designed to work efficiently in both online and offline modes, ensuring uninterrupted drone operations.*

RESULTS

By implementing **Soarveyor**, drone operators experienced a significant improvement in efficiency, accuracy, and overall mission management. The custom drone flight software's innovative features and automation capabilities have revolutionized the industry, making it an indispensable tool for large-scale drone operations.

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