

1. Develop advanced drone hardware: – Design and build a drone with high-resolution cameras and specialized sensors to detect runway issues. Ensure regulatory compliance: – Ensure that the drone system complies with all relevant aviation and safety regulations. Create intelligent detection algorithms: – Develop image and data processing algorithms to accurately identify pollution, damage, uneven surfaces, and drainage problems on runways. Implement autonomous flight capabilities: – Program the drone for autonomous flight patterns over runways, ensuring comprehensive coverage. Establish a real-time reporting system: – Develop a communication system for the drone to transmit detected issues in real-time to airport authorities and maintenance teams. 2. 3. 4. 5. 6.