

Ubuntu Powered Autonomous Drones for Hazardous, High Altitude Work

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With surveys in 2016 indicating that falls accounted for more than 16% of all workplace deaths in the United States Apellix the aerial robotics company took upon itself the challenge of devising ways to prevent people from having to work in dangerous, elevated environments by developing innovative drones that can take over hazardous, high altitude work ? for instance measuring paint thickness on U.S.

Navy ships or the wall thickness of a 100m flare stack at an oil and gas refinery. Built on Ubuntu, the drones leverage autonomous flight functionality to manoeuvre with pinpoint accuracy, making it fast, cost-effective, and safe to perform essential tasks at great heights targeting infrastructure, maritime and energy industries.

Each U.S. Navy Destroyer and Aircraft Carrier requires five coats of paint, and each coat must be measured to ensure that it is the correct thickness for which corrosion engineers have to go up using cranes, lifts, or rope work to manually take more than 2,000 measurements across the hull. Even in good weather and without interruptions, measuring each coat of paint on ships needs a 7 person crew employed for six days, and costs more than \$100,000.

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