

Aircraft Inspection Drone

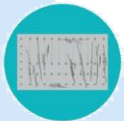
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Problem

- Visual inspection of aircrafts is vital for aircraft performance, maintenance and safety.



- There are different visual defects that aircrafts could have including: minor cracks, missing rivets, dents, and lightning scratches.



Cracks

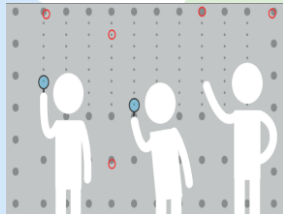


Rivets

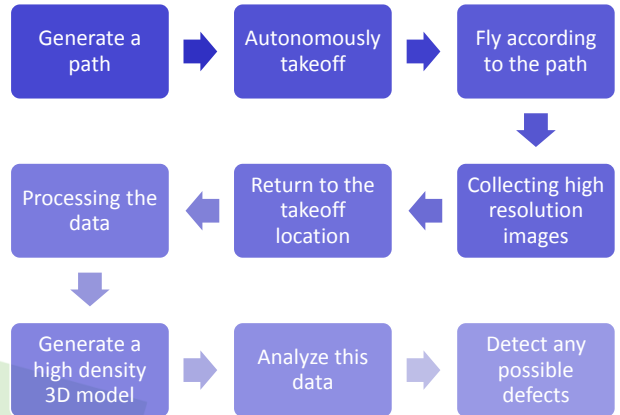


Scratches

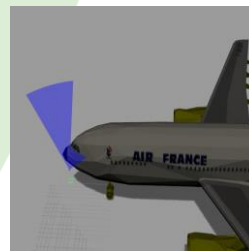
- Manual visual inspection is labor and time consuming. Also some areas are hard to inspect due to location.



Methodology



Results



Real model



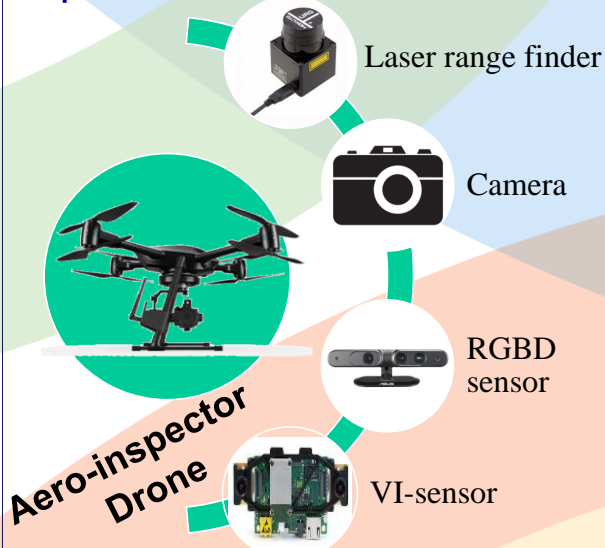
Re-Constructed model

Impact

The prototype system provides a faster, more accurate, and cheaper alternative to aircraft inspection, in comparison to manual inspection.



Proposed Solution



Future Potential

The technology developed can be utilized in various other inspections tasks with minor adjustments.

