

# Unmanned aircraft developed by DTU students

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Trying to bridge the frontiers of science, students at Delhi Technological University have designed and developed an unmanned aircraft system (UAS). It has been designed for surveillance applications in urban areas. The aircraft has

been developed by a team of students in a collaborative effort with Lockheed Martin.

A 10-member inter-disciplinary team from DTU headed by Gaurav Gupta of the final year mechanical engineering developed the unmanned aircraft system (UAS).

Students in the team were drawn from computer and

electrical engineering, physics and automobile engineering.

Gaurav Gupta gives the details about the aircraft system, "We designed and developed the unmanned aircraft system. A ten-member team worked on this special project. The UAS comprises a fixed wing aircraft of approximately 12 ft span weighing 36 kg."

Gaurav adds, "The aircraft is equipped with sensing, imaging and surveillance capabilities and can fly up to 20,000 ft with a payload of 17 kg. The prototype will test fly in November this year." The entire project is the result of an industry-academia collaboration between DTU and Lockheed Martin.

Students at DTU have also

worked on a number of innovations in robotics, software and hardware development, design of manual and solar-powered transport vehicles. The robotics research at the varsity is most ambitious to date.

"Students have developed robots that are digitally operated and mechanically controlled. These robots have been displayed in var-

ious contests. The students have also developed a range of software and hardware projects," said Dr Vivek Tripathi, spokesperson at DTU.

The university has created many innovations like hybrid car, unmanned aerial vehicle, automatic vending machine, all-terrain vehicle and Robotic Shera to mention a few.