

# Advancing Avionics with Stratasys 3D Printing: Accord's Faster Drone GPS Tracker Prototyping

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Accord is a global brand with 30+ years of expertise in Navigation and Avionics. It operates in two main verticals: GPS/GNSS solutions for Defense and Commercial sectors, and Engineering services & ATE for Avionics. Their GPS/GNSS solutions provide accurate positioning for military and commercial applications. In Avionics, Accord offers Engineering services and Automated Test Equipment to ensure safety and performance standards are met. With a focus on specialized solutions, Accord continues to excel in these critical industries.

With the traditional way of making the Drone tracking device prototype, which took considerable time, Accord felt there is an urgent need to create a faster prototype for a Drone GPS Tracking Device. The main objective was to validate the design fit, and 3D printing technology came to the rescue. By utilizing ABS filament as a 3D Printing material, Engineering grade thermoplastic material in FDM 3D printing, Accord not only achieved the design validation but also conducted real-time functional testing.

Moreover, utilizing 3D Printing machine for prototype significantly contributed to reducing the overall weight of the enclosure, resulting in increased payload capacity for the drone. This was a crucial advantage, as lightweight enclosures are vital for drone performance and efficiency.

The success of FDM 3D Printing in meeting their expectations delighted the Product execution & CAD Engineering team at Accord. They were highly satisfied with the results and the capabilities offered by 3D printing technology and consequently, they have made the decision to continue 3D Printing services in Bangalore from Altem Technologies for all their future prototyping needs, demonstrating their confidence in the technology and its benefits for their projects.



# About Altem Technologies Pvt. Ltd

Altem Technologies is a well-established 3D digital experience company that has been actively contributing to the industry for nearly 15 years. Initially rooted in PLM software and 3D Printing, Altem has successfully transformed into a prominent provider of comprehensive 3D digital solutions. Altem's 3D Innovation platform offers an extensive array of products catering to various applications, including design, reverse engineering, asset digitization, prototype manufacturing, life science, healthcare, culture and heritage, and consultancy services, among others

With a diverse clientele spanning automotive, aerospace, manufacturing, healthcare, research academia, and more, Altem adeptly addresses the unique requirements of each industry through a combination of expertise and innovation. Our team comprises skilled professionals, including Scientists, Application Engineers, Designers, domain experts, and software specialists, all working collectively to deliver exceptional solutions to our valued customers

Altem Technologies Pvt Ltd, besides being a major provider of 3D Scanning services in India, is also a leading provider of 3D Printing Services in India with 3D Printing technologies like FDM, Polyjet, DLP, Metal, etc. Altem offers a complete solution around 3D Digitization and Innovation, and has emerged as a one-stop-shop for all 3D Printing, 3D Scanning, CAE, PLM, and Life Sciences needs, offering a wide spectrum of products for engineering and life sciences companies in India.

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