

For Immediate Release  
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## SelectTech GeoSpatial CAM Produced UAS From Printer to First Flight



The Flight Team: Beafore, Galang and Lowrey



The UAS in Flight

A successful test flight of an unmanned aircraft system (UAS) was completed on October 18<sup>th</sup> by SelectTech GeoSpatial's Advanced Manufacturing Facility (SGAMF) technical team in Springfield, Ohio. The UAS was designed and built with a computer aided manufacturing (CAM) system consisting of Solid Works® and a Dimension SS 1200 ES 3D copy machine. This is the first non-government built aircraft of its type.

The aircraft has a wingspan exceeding 4 feet and a weight of 5.3 pounds and is made entirely from ABS plastic. Powered by an electric motor and Lithium Polymer batteries, it flew in winds in excess of 25 knots. The pilot, Jade Lowrey said, "it took off very smoothly and handled well even in high wind". The aircraft was designed and engineered by Frank Beafore, Executive Director of SGAMF, and Beth Galang, Chief Designer. Galang indicated "this design and build system revolutionizes the product development process – not to mention speed to delivery".

Beafore stated "the prime reason for building this aircraft was to demonstrate a new method of rapid prototyping. This system allows the technical team to conceptualize and test a concept before using final material. After design optimization, the design data can be sent directly to the 3D copy machine just like sending a document to a paper printer".

After refinement, this aircraft design will be scaled to double its size, built from carbon fiber material and used as an aerial sensor test platform.

The initial flight trials were made at the Springfield-Beckley airport under The Academy of Model Aeronautics (AMA) flight rules.

Located at the Springfield Beckley airport in Springfield, Ohio, SGAMF provides rapid technical solutions for the US DoD, government and commercial customers.

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