

Energy and Environmental Design Project

Micro Unmanned Aerial Vehicle (UAV)

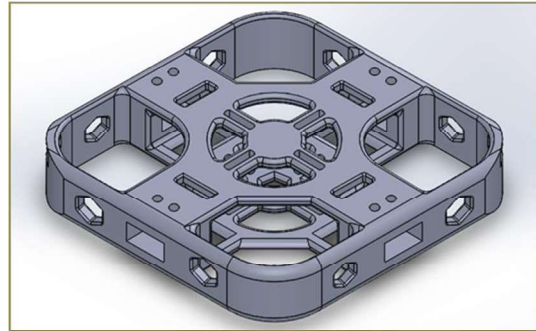
Mission Statement

The goal is to design a small, low cost 3D printed Unmanned Aerial Vehicle (UAV) kit for high school students nationwide that can be used as a teaching tool for lessons in SolidWorks, Rapid Prototyping, and 3D Printing.

Synopsis

The Micro Unmanned Aerial Vehicle (UAV) team has been hard at work designing, prototyping and testing a 3D printed micro UAV kit. The requirements for the UAV are that it be compact, lightweight and easy to assemble. The design aspect of the drone was accomplished using SolidWorks, while simultaneously 3D printing prototypes in order to find the right balance of minimal weight and strength of material.

The target demographic of the project is students across the country, via teachers providing classroom instruction. The kit includes the drone with essential components such as flight controllers, motors, rotors, speed controllers, and proper connections along with instructions on the UAV's assembly. What sets this project apart from the competitors is our step by step design instructions that are given to students to create their own versions of the UAV through SolidWorks.



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