

Abstract Submitted
for the OSS17 Meeting of
The American Physical Society

New Short-Range Public Aerial Transportation System JARED POWELL, DON ANDERSON, BLAKE HENDRIX, DOM LESNIAK, Student — Urban populations are growing throughout the world which is causing increased traffic and pollution problems in these areas. A new form of clean short-range public air travel could provide a solution to this problem by offering commuters an alternative to conventional transportation. The goal of this project was to design a new transportation system in the form of an air vehicle. The vehicle was designed to produce zero carbon dioxide emissions and does not require major advances in technology. Atlanta, Georgia was chosen as the sample city for this project with the objective of allowing travel between downtown Atlanta and the surrounding metropolitan areas. Analyses of parameters such as thrust, weight, drag, and travel time between nodes (among others) were conducted to determine and optimize the performance of the vehicle. This project was part of a NASA 2017 Undergraduate Student Design Challenge.

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None

Date submitted: 07 Apr 2017

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