



# Investigation of the Helios Prototype Aircraft Mishap - Volume I Mishap Report

By John M. Brown

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 100 pages. Dimensions: 11.0in. x 8.5in. x 0.2in. The Helios Prototype vehicle was one of several remotely piloted aircraft funded and developed by NASA under the Environmental Research Aircraft and Sensor Technology (ERAST) project, and managed by NASA's Dryden Flight Research Center (DFRC). This vehicle was a proof-of-concept, propeller-driven, flying wing built and operated by AeroVironment, Inc. The vehicle consisted of two configurations. One configuration, designated HP01, was designed to operate at extremely high altitudes using batteries and high-efficiency solar cells spread across the upper surface of its 247-foot wingspan. On 13 August 2001, this aircraft configuration reached an altitude of 96,863 feet, a world record for sustained horizontal flight by a winged aircraft. The other configuration, designated HP03, was designed for long-duration flight. The plan was to use the solar cells to power the vehicles electric motors and subsystems during the day and to use a modified commercial hydrogenair fuel cell system for use during the night. The vehicle was also equipped with batteries as a backup source of power. The aircraft design used wing dihedral, engine power, elevator control surfaces, and a stability...



**READ ONLINE**  
[ 4.43 MB ]

## Reviews

*Thorough manual! Its this sort of good read through. it absolutely was writtern very flawlessly and helpful. I am just easily will get a delight of studying a created publication.*

-- **Abdiel Stiedemann Sr.**

*These sorts of ebook is the perfect publication accessible. I really could comprehended every little thing out of this created e ebook. I am very happy to inform you that this is basically the very best ebook i actually have study within my personal life and might be he finest pdf for ever.*

-- **Favian O'Kon**