

DR. PAUL D. SAMUEL is an Assistant Research Scientist within the Department of Aerospace Engineering at the University of Maryland, College Park. Dr. Samuel holds B.S., M.S., and Ph.D. degrees in Aerospace Engineering from the University of Maryland. In May of 1992, he enrolled in the undergraduate Aerospace Engineering program at the University of Maryland with a Francis Scott Key Scholarship. After earning his University Honors Citation in December of 1994 and his Bachelor's degree in August of 1996, he entered the graduate program at the University of Maryland Alfred Gessow Rotorcraft Center. In August of 1999, he received his Master's degree, and in August of 2003, he received his Ph.D. The key thrust of his doctoral research was the development and application of adaptive wavelet-based algorithms for transmission Health and Usage Monitoring (HUMS). In addition, he was one of the primary researchers involved in the development of MICOR, a micro-scale coaxial rotorcraft that was the Rotorcraft Center's initial effort in the area of micro air vehicle (MAV) development. Currently, Dr. Samuel is working as an Assistant Research Scientist for the Rotorcraft Center where he is involved in the development of autonomous MAVs. His research is focused on advanced MAV configurations and enabling technologies for MAVs, including the use of active and multifunctional structures for MAV control and inertial and optic flow sensors for navigation and obstacle avoidance. His research has been funded by the National Rotorcraft Technology Center, the NASA Glenn Research Center, and the Army Research Office. Dr. Samuel has been honored with the Minta Martin Fellowship, the AIAA Foundation Scholarship, the AHS Vertical Flight Foundation Masters and Ph.D. Scholarships, the AHS International 57th and 59th Annual Forum HUMS Session Best Paper Awards, and the AHS International 61st Annual Forum Aircraft Design Session Best Paper Award.