

Diallo Wallace

Diallo Wallace founded The Engineering and Science Academy (TESA), focusing on pre-college engineering education, with a high school curriculum aligned to university-level expectations. He is a California and Maryland State Credentialed Teacher in Career Technical Education (CTE) with experience teaching aviation and engineering to youth. Diallo has earned a Bachelor of Science in Electronics Engineering and a Bachelor of Arts in Mathematics from the University of Illinois. At the graduate level, he has attained a Master of Science in Astronautical Engineering from the Naval Postgraduate School and a Master of Project Management from Keller Graduate School. He is currently pursuing a Ph.D. in Engineering Education at Purdue University



with a dissertation focus on the benefits of interweaving physics first and engineering curriculums for student self-efficacy in engineering. He has presented to The American Society of Engineering Education (ASEE) on the gains of incorporating computation and computer programming in K-12 curriculums. He has presented at NASA's Space Exploration Educators Conference (SEEC) on ways to implement the engineering design process for pre-college students and also how the crew of Apollo 13 was saved through geometry.

Diallo developed and wrote a pre-college science and engineering curriculum that spans 6th to 12th grade. The middle school curriculum focuses on developing pre-engineering/science literacy, skills, and knowledge. The high school curriculum was approved by the University of California A-G program, recognizing the courses preparation of students for scientific or science-related studies at the university level. His passion is empowering K-12 and undergraduate students to understand science and engineering through the application of mathematics. Diallo is an Analog Astronaut participating in spacesuit evaluations at the University of North Dakota's [Inflatable Lunar and Mars Habitat](#) (ILMAH) and was Mission Commander at the [Flashline Mars Arctic Research Station](#) on Devon Island. He is also a member of NASA's [Airborne Astronomy Ambassador](#) program, where he flew aboard the SOFIA 747 flying telescope aircraft during a weeklong data collection effort. Diallo is also a very proud alumnus of Space Camp, actively encouraging teachers and students to attend the program. He has been inducted into the [Space Camp Hall of Fame for 2025](#).



In his military capacity, Diallo is a Naval Aviator and Aerospace Engineering Duty Officer in the NAVAIR RESERVE PROGRAM (NRP). He served in the Department of Aerospace Engineering at the United States Naval Academy, instructing aeronautics, astronautics, and MATLAB Computer programming courses. He was the Officer Representative of the 1000-member Naval Academy Flight Training Squadron (VTNA), where he trained and mentored midshipmen for flight school. Diallo routinely presents to youth and teachers about space and aviation as an active volunteer of the Naval Academy's STEM Center for Education and Outreach. His reserve tours include serving as Assistant Officer in Charge (OIC) for Naval Reserve (NR) Flight Test Augmentation Unit, Executive Officer (XO) of NR Joint Functional Component Commander for Space, and Administration Officer for NR Rapid Research and

Development Unit. He is a member of the Defense Acquisition Corps, earning a Level III in Program Management, and has attained the highest level of AQD for Space Acquisitions and Space Operations. He has served at Johnson Space Center's Astronaut Office supporting the International Space Station.

Serving as an Associate Fellow for The Chief of Naval Operations Strategic Studies Group XXIV, he also earned Joint Professional Military Education Level I. He has been awarded the Military Outstanding Volunteer Service Medal for his work teaching aviation to youth. His other decorations consist of the Global War on Terrorism Service Medals, National Defense Service Medal, Sea Service Deployment Ribbon, and the Armed Forces Expeditionary Medal, Naval Unit Commendation, and the Navy Achievement Medal.