



***U.S. Army, DEVCOM – Armaments Center
Picatinny, NJ***



Ralph Carter Tillinghast

Senior Scientific Technical Manager for Future Intelligence

DB-6 - Technical

PhD: Systems Engineering
(Stevens Institute of Technology)

MS: Manufacturing Engineering
BS: Electrical Engineering & BS: Mechanical Engineering
(Worcester Polytechnic Institute)

Dr. Tillinghast began his career outside the DOD designing and developing medical and industrial endoscopic devices. He came to Picatinny Arsenal in 2003 working in the Mortar Fire Control Systems Branch for the US Army. During this time he held various roles as design engineer, lead system engineer, project lead and Science & Technology Chief Scientist, all within Fire Control.

Currently Dr. Tillinghast is the Senior Scientific Technical Manager for Future Intelligence. This position focuses on increasing the intelligence and optimizing armament systems by leveraging human, augmented and artificial intelligence coupled with new technologies and developments. He is also stood up the Collaboration Innovation Lab. This lab is focused on identifying and developing new technologies that can positively impact the Warfighter, while creating collaborative relationships among government and commercial groups to ensure the best possible solutions are developed. He has received multiple patents related to his work. Dr. Tillinghast is also an Professor for the U.S Army's Armaments Graduate School, teaching courses in AI, Fire Control and Innovation.

Along with these roles he is a strong advocate for STEM (Science, Technology, Engineering and Math) outreach programs. Dr. Tillinghast tries to visit schools monthly, giving workshops to introduce kids to STEM related materials. He has published over a dozen academic papers in the area of STEM outreach to aid other organizations in optimizing and conducting STEM outreach. He encourages you to take the time and reach out to the youth of today. It is our duty as scientist and engineers to ensure that the kids of today understand what we do and what role the STEM discipline play in their world. Lastly, Dr. Tillinghast is also an Eagle Scout and hopes you will support your local scouting programs as they serve as America's first line in training our future leaders.