



# U.S. ARMY FUTURES COMMAND



## Colonel Isaac J. Faber, PhD.

### Director, U.S. Army Artificial Intelligence Integration Center

Col. Isaac Faber serves as the Director of Army AI Capabilities at the Army Artificial Intelligence Integration Center (AI2C) which was established under Army Futures Command on October 2, 2018. AI2C is intended to narrow an existing AI capability gap by leveraging current technological applications to enhance warfighters' capabilities, preserve peace, and, if required, fight to win. With its establishment, the AI2C leads and integrates the Army artificial intelligence strategy and implementation plan, synchronizes key development efforts, and sets the foundations for operationalizing Artificial intelligence within the Army Modernization Enterprise. The organization is based out of Carnegie Mellon University in Pittsburgh, PA, leveraging the Pittsburgh ecosystem related to AI and robotics.

Faber previously served as Director of the U.S. Army's Artificial Intelligence Integration Center (AI2C) AI Factory, which worked to build and deploy data focused and AI products that solve Army problems and deliver useful capabilities to Soldiers. His primary focus was to lead and transition AI material development efforts within AI2C with responsibility for the technical feasibility and operational deployment of various AI products focused on Army modernization initiatives. He also assisted in the execution of the Army AI and Data Strategies, which established priorities for Army AI and cloud infrastructure development and deployment efforts and projects. Additionally, he provided data science and AI expertise to assist prioritization of AI capabilities within each Cross Functional Team, that are part of Army Futures Command, to enable Multi-Domain Operations. Faber established and led the first operational data science capability within the AI2C's AI Factory. In addition to technical focuses, he also secures and manages funding for AI2C's material development portfolio and the Army's community-based AI and data science development ecosystem. Faber previously served as AI2C's Chief Data Scientist and oversaw technical aspects of the projects in AI2C's Portfolio along with leading the design and deployment of the Army's next generation AI development platform, as one of the Center's founding members. Formerly, he led the architecting and deployment of the first operational big data platform in the DoD as the lead data scientist at U.S. Army Cyber Command.

Faber is also an Assistant Professor with the Systems Engineering Department at the United States Military Academy at West Point and instructor at Carnegie Mellon University and Stanford University, where he teaches courses focused on practical machine learning and continuing education courses focused on data-driven leadership and building data-driven cultures, respectively. Faber holds a Master of Science in Industrial and Systems Engineering from the University of Washington and a Ph.D. from Stanford University, where he researched risk management in cybersecurity using AI and human cooperation. He is also a Ranger qualified combat veteran serving tours as an Infantry Platoon Leader and Company Commander.