



# A commitment to wielding AI for good

Ethical AI solutions are the key to achieving this technology's full potential

**OUR NATION DESERVES THE VERY BEST** from its leaders in aerospace and defense, and artificial intelligence is essential to achieving that goal. Lockheed Martin is proud to partner with our Defense Department customers and the most advanced commercial companies to apply state-of-the-art technology to our most challenging national security problems in a safe, trusted and ethical manner.

Internally, we have organized ourselves to accelerate the application of AI across a diverse set of capabilities spanning the breadth of our enterprise. We have created the Lockheed Martin AI Center (LAIC) to significantly reduce the barriers to entry for new and existing programs to deploy AI,

providing both the foundational tooling and AI-enabled capabilities to programs across the business in support of our government customers and internal business operations.

## A disciplined approach to the AI life cycle

Before we can scale AI and machine learning solutions for ourselves or our customers, we must first provide frictionless access to the robust tools and processes that every data scientist requires. To do that, we tap the best open-source software, develop some of our own internally and partner with leading tech companies like NVIDIA.

Our AI Factory is a modular ecosystem for training, deploying and then sustaining AI models at scale. It streamlines access



**Justin Taylor**  
Vice President of AI,  
Lockheed Martin



**Greg Forrest**  
Director of AI Foundations,  
Lockheed Martin



**Mike Harasimowicz**  
Director of AI Innovations,  
Lockheed Martin

to compute, data, software and security to eliminate many of the complexities that can plague machine learning operations. As a result, users can focus on building models that solve complex challenges and allow them to iterate rapidly.

In addition, the AI Factory provides solutions for how teams govern and control their processes. We need to ensure that we can automate, monitor and apply security throughout the entire machine learning life cycle – from how data is curated and labeled to how models are trained, deployed, sustained and monitored once they're out in the field. A disciplined approach is paramount for taking AI-enabled solutions from the prototype or pilot phase and scaling them into production environments.

## Busting the myths about AI

There is a certain mythology associated with AI based on science fiction and movies. We have to bust those myths and educate our customers and the general public by demonstrating trustworthiness and the positive potential of AI. Lockheed Martin is committed to the highest standard of ethical conduct in all that we do. Together with NVIDIA, we ensure that our solutions are





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scrutinized for unintended bias and that our methods can be used across the entirety of a program's life cycle.

We are using that diligent approach to apply the technology to the most challenging government problems. For example, recent wildfires in the western U.S., Europe and Australia brought the recognition that AI can be a critical factor in helping government agencies handle crisis situations more effectively. NVIDIA

and Lockheed Martin are working on a project called Cognitive Mission Manager that is enabling us to tackle the challenge of fighting and containing wildfires. Together, we're committed to creating better methods of predicting fire behavior, optimizing response options and facilitating decision-making to protect lives and property.

It's exciting for us to be able to stand on the shoulders of the giants of the technology

field, join forces with leaders like NVIDIA and create partnerships with our customers to wield AI for good. Together, we can accelerate the ethical application of AI across the entire government enterprise. ■

**Justin Taylor** is vice president of AI, **Greg Forrest** is director of AI Foundations and **Mike Harasimowicz** is director of AI Innovations at Lockheed Martin.

## Toughest Challenges, Greatest Rewards

Opportunities abound across Lockheed Martin for AI/ML experts. Contact the Lockheed Martin AI Center (LAIC) today to join the team. To learn more, visit [Lockheedmartinjobs.com](https://Lockheedmartinjobs.com).

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