

Using PC-Based Flight Simulations Based on FAA-Industry Training Standards

# SCENARIO-BASED TRAINING

with X-Plane® and  
Microsoft® Flight Simulator



Bruce Williams

PHONE



*Praise for*  
**Scenario-Based Training with X-Plane and  
Microsoft® Flight Simulator**

“Author Williams draws from a rich background in aviation and computing to lead the industry in a direction that will change the way flight training is conducted in the future.

Incorporating routine use of simulation into flight training will transition us from focusing solely on “fundamental skills” to delivering a pilot who is truly ready to be a pilot-in-command—one who has developed the habit of identifying and managing the risks of flight.

While the FAA’s first suggested way of implementing scenario-based training may have been a bit contrived and impractical, Williams shows us how we harness the power of computing to make use of it to develop a higher level of pilot learning and much more capable pilots.”

—JOHN AND MARTHA KING  
*Co-chairmen and co-owners of King Schools, Inc.*

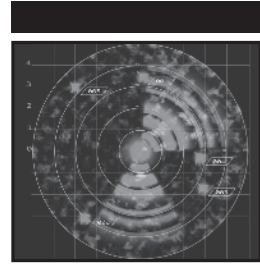
“Let’s be clear about one thing. I love teaching people how to fly and I am an unrepentant PC-based flight simulation fan. So when I see a new book that helps pilots—rated, aspiring, or virtual—learn how to better use their PC-based simulation software, I get excited. And when that book is written by Bruce Williams, I know it’s going to be a first class training manual.

*Scenario-Based Training with X-Plane and Microsoft Flight Simulator* is Bruce’s latest contribution to aviation education. What gives this book its educational heft is that Bruce shows you how to use your flight simulator to develop and reinforce your motor, perceptual, and cognitive flying skills. And he does this by creating real-world flying scenarios, then placing you and your joystick right in the middle of the mix to help you master your piloting performance.

Let’s face it, most pilots can’t spend as much time in the cockpit as they’d prefer. They can, however, do the next best thing by allowing Bruce Williams to become their book-based simulator instructor. So start your scenario-based training now by reading and applying the lessons found in Bruce’s new book, *Scenario-Based Training with X-Plane and Microsoft Flight Simulator*.”

—ROD MACHADO  
*Flight Instructor, AOPA National CFI spokesman,  
and writer for AOPA Pilot and Flight Training Magazine*





# **Scenario-Based Training with X-Plane and Microsoft® Flight Simulator**

**Using PC-Based  
Flight Simulations Based on  
FAA-Industry Training Standards**

Bruce Williams



John Wiley & Sons, Inc.

## Scenario-Based Training with X-Plane and Microsoft® Flight Simulator: Using PC-Based Flight Simulations Based on FAA-Industry Training Standards

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## About the Author

Bruce Williams is the owner of BruceAir, LLC, an aviation consulting, training, and pilot-services company based in Seattle, WA ([www.BruceAir.com](http://www.BruceAir.com)).

He has been a pilot since the early 1970s, and he is a certified flight instructor and FAA Team representative in the Seattle area. Today, he focuses on training for technically advanced aircraft (TAA) and stall/spin/upset courses in an Extra 300L aerobatic aircraft.

During a 15-year career at Microsoft, he worked on six versions of Microsoft Flight Simulator. While at Microsoft, he was also a technical editor, multimedia producer and editor, and business development manager.

In the 1980s, he edited the *Western Flyer* (now the *General Aviation News*), a biweekly newspaper dedicated to the world of general aviation. He is also the author of *Microsoft Flight Simulator as a Training Aid: A Guide for Pilots, Instructors, and Virtual Aviators*, published in 2007 by ASA, and many features on a variety of topics for magazines and other periodicals.



# About the Technical Editor

**Doug Holland**, an Architect Evangelist at Microsoft Corporation, took to the sky on his first solo flight in a Cessna 172 at KEDU (University Airport in Davis, CA) on March 1, 2008. Doug is also a member of the Civil Air Patrol, US Air Force Auxiliary, participating in search and rescue flights. He lives with his wife and four children in Northern California.





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Only the true pioneers of aviation — Otto Lilienthal, the Wright brothers, the original fighter pilots of World War I — discovered how to fly. Those of us who have taken to the skies after them benefit immeasurably by learning from others.

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