

REIMAGINING THE SKIES

BY LISTEN MUTASHU

An Interview with Joshua K.N. Wall, CEO of AMTIL Inc



In the ever-evolving world of aviation, innovation often comes from those who have spent time both in the cockpit and on the hangar floor. Joshua K.N. Wall, CEO and co-founder of AMTIL Inc., by combining experiences from both workstations, is leading the way. A former Commercial pilot turned aerospace engineer and educator, Wall is leading a digital revolution in aviation maintenance training — one that blends cutting-edge technology with a deep understanding of how today's learners engage with the world.

We sat down with Wall to explore how AMTIL Inc. is using immersive technology, gamified learning, and global partnerships to redefine the future of aviation maintenance training.

From Pilot to Pioneer

Wall's journey in aviation began in the skies as a commercial pilot certified under EASA. But it was not long before his path expanded into maintenance, advisory roles, and engineering.

"I started noticing how disconnected traditional aviation training was from the way students actually learn today," Wall explains. "The textbooks were outdated, the tools irrelevant — all while aircraft were becoming more advanced than ever."

That disconnect sparked an idea. Teaming up with longtime friend and co-founder Jeremiah Okpo — a maintenance technician, propulsion engineer, and former instructor — Wall launched AMTIL Inc., a platform designed to modernize aviation maintenance training through immersive, interactive, and multilingual digital environments

The Problem with the Status Quo

According to Wall, one of the biggest challenges in aviation maintenance training is relevance. "Many schools still use decades-old materials — static PDFs, clunky simulators, and limited access to real aircraft. We knew there had to be a better way."

AMTIL's response? High-fidelity simulations where students do the work, not just read about it. "Our platform puts learners inside the aircraft — virtually. They engage with 3D tools, watch animations in their native language, and

learn through doing, not memorizing."

Gamification: More Than Just Play

At the heart of AMTIL's model is gamification — but not in the way you might think. "It's not just about making it fun," Wall clarifies. "It's about making it stick. When users perform tasks in our Workshop module, they earn points, use a virtual toolbelt, and get real-time feedback. It's immersive, yes — but it's also educational science at work." With humor, challenges, and immediate feedback woven into the experience, AMTIL taps into how Gen Z and Millennials already engage with technology — turning training into an experience, not a chore.

Tech That Transforms Outcomes

While AMTIL is still collecting formal outcome data, the early feedback has been promising.

Their Encyclopedia module — a multilingual, animated knowledge base — has made complex systems like aircraft hydraulics more accessible than ever.

"Instructors tell us students retain more, find information faster, and stay more engaged. And in our Workshop simulations, trainees love the hands-on feel. It gives them the confidence to tackle real-world maintenance scenarios."





Virtual Reality: The New Normal

Looking ahead, Wall sees virtual and augmented reality as integral to aviation training — especially as aircraft become more complex and physical resources scarcer.

"Imagine a student in Ghana working on a virtual Boeing 737 brake assembly, guided by live feedback and collaborating with a peer in Brazil. Or a technician in an MRO using Augmented Reality (AR) glasses to overlay live schematics during a maintenance check. That is where we are heading — and it is already happening."

Built for the Future

So how does AMTIL stay ahead of the curve? "Modularity and adaptability," Wall says. "Our platform uses AI to personalize learning, spot weaknesses, and guide each user's journey.

Plus, we maintain strong ties with MROs, regulators, and schools to stay aligned with real-world demands."

An internal innovation team continuously evaluates advancements in VR, AI, and blockchain, ensuring AMTIL's solutions remain at the forefront of both technology and pedagogy.

Global Reach, Local Impact

Initial skepticism from the industry has quickly given way to enthusiasm. "Once people try it, they get it," Wall says. AMTIL is already piloting programs in over ten countries, with Memoranda of Understanding (MOUs) signed or in progress from the U.S. to Africa. Collaborations with major airlines and nonprofits like Startup Africa and ASPIRE

Aerospace Education have also been pivotal. "We're building tools that are not only advanced, but accessible and equitable. This is about opening doors — everywhere."

Trainee Reactions and Real-World Impact

Perhaps most telling is the reaction from trainees. "They say AMTIL feels like a video game — but it's school. And that's the point. We want learning to be memorable, active, and empowering."

In regions like Kenya and Senegal, feedback has been especially affirming. "Leaders there see AMTIL not as a luxury, but a necessity for Africa's aviation future."

Eyes on the Horizon

Wall's five-year vision for AMTIL is bold: to become the global gold standard in aviation maintenance training. That means partnerships across continents, thousands of students onboarded, and certification pathways that meet FAA, EASA, and regional standards — all from a single digital platform.

Beyond that? Expansion into avionics, composites, aerospace manufacturing, and more. "But it's not just about scaling," Wall emphasizes. "It's about impact — raising the bar for aviation excellence while lowering the barriers to entry."

A Message to Aspiring Engineers

Wall closes with a personal note — especially for young Africans dreaming of flight.

"My mother was South African. I know the resilience that lives in Africa's youth. Don't let geography or resources hold you back. The tools to learn and lead are more accessible than ever. AMTIL exists because we believe in your potential. The next great leap in aviation might come from a garage in Kampala or a dorm room in Lagos. Don't stop dreaming."

Final Advice to the Industry

To organizations still hesitant about adopting immersive training tech, Wall offers this: "Start small — but start. You don't need to overhaul everything overnight. Try one module. See the results. This isn't about replacing instructors — it's about empowering them. And remember: hesitation costs time. In aviation, a lack of readiness costs much more."

In the world of aviation, few things stay grounded for long — and with leaders like Joshua K.N. Wall and companies like AMTIL Inc., the future of aviation maintenance training is poised to soar.