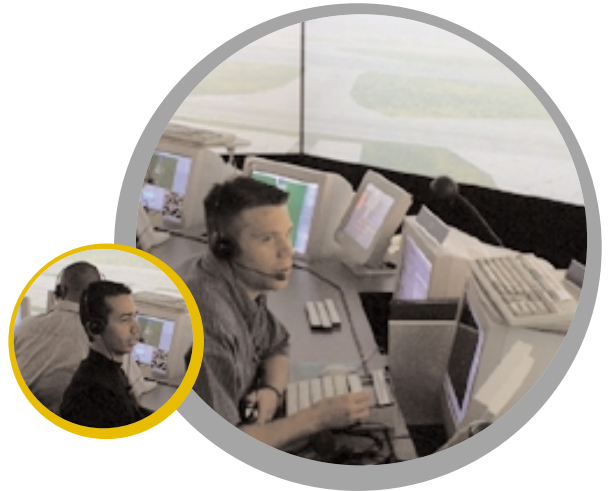


## ADACEL CUSTOMER TESTIMONIAL



# University of North Dakota



**“We chose the Adacel MaxSim because of the quality of the tower visuals, as well as its ability to integrate radar and tower simulations.”** – Paul V.J. Drechsel, Director, Contract Training ATC

### SOLUTION SUMMARY

#### Customer

University of North Dakota

#### Industry

Education

#### The Challenge

Over the past few years UNDAF enrollment for air traffic control and contract training has increased five fold, UND needed to acquire the best performing air traffic control (ATC) simulators to keep up with its training demands.

#### The Solution

The Adacel high fidelity 360-degree MaxSim Tower Radar with voice recognition, complementing their 225-degree MaxSim.

#### About UND

University of North Dakota (UND) John D. Odegard School of Aerospace began in 1968 with two donated planes and twelve students. Prior to becoming the department's founding chairman, Odegard had a fascination with aviation, he even worked as a crop duster to help pay tuition as a college student. In 1982, the Center for Aerospace Sciences was established to handle the tremendous growth of UND's atmospheric research and aviation education programs. The John D. Odegard School of Aerospace Sciences is now the second largest of UND's degree-granting colleges, and operates one of the largest fleets of civilian flight training in North America.

The University of North Dakota Aerospace Foundation (UNDAF), is a public non-profit corporation; founded in 1985 that serves as a business arm between industry, the John D. Odegard School of Aerospace Sciences and the University. It is focused on delivering Aerospace training with state-of-the-art equipment for University of North Dakota students.

#### Leading Educational Institution

As one of the world's leading aerospace education institutions, UND's core strengths lie in its expertise and capability in atmospheric science, aviation, computer science and space studies. Over the last few years, the university has been experiencing tremendous growth and they have won world recognition from the global aerospace community.

Underpinning UND's achievements is its commitment to technology. “Proper training is at the core of our educational business,” says Paul V.J. Drechsel, UND's Director of Contract Training ATC. “Without it, we are not providing the ATC community with appropriately trained controllers. These controllers are in desperate demand, if we are to replace the shrinking workforce.”



Adacel and UND have a long-standing relationship; in 2001 UND acquired a 225-degree MaxSim tower and in 2003, due to increase demand for ATC services, UND purchased a 360-degree MaxSim Tower with integrated Radar. "The MaxSim Tower is an extremely professional and high quality system," said Drechsel. "MaxSim's ability to offer high quality visual scenes, flexible aircraft performance databases, as well as, advanced voice recognition, made choosing the MaxSim the logical choice and has proved to be the best solution."

### **Complete System Architecture and Effective Integration**

Prior to implementing Adacel equipment, the UND traffic lab consisted of 32 virtual controller radar simulators; this was developed by UND Aerospace to meet FAA training requirements. "When we were choosing a supplier, we did not need to look any further than Adacel." The Adacel MaxSim 360-degree tower radar complements UND's existing 225-degree MaxSim Tower simulator. MaxSim Tower works in conjunction with 8 radar stations ensuring that the air traffic control training will meet UNDAF and UND Aerospace training needs. Each system has voice recognition capabilities for a complete ATC training experience.

The MaxSim Tower Radar serves as a valuable resource for combined training - bringing even more real-world experience to the classroom. The combined solution provides students with industry standard training and increased the real-world index of the applications. "We are extremely pleased with the quality of our MaxSim simulators. The attention to detail in the visuals, the voice recognition, its ability to mirror the real-world and Adacel's ability to deliver the equipment in UNDAF's time frame, were the major factors in purchasing the Adacel MaxSim," says Drechsel. UND students as well as the Norwegian aviation authority, which trains its professional staff at UND's center, will benefit from the new system.

### **Results and Benefits**

When discussing cost issues, Drechsel explains, "finding a solution that could integrate Tower and Radar training was a key component in our decision, we needed a solution that would provide the best price to performance ratio. Adacel has the best combination of product architecture, high fidelity visuals and scalability for our buying power."

The installation of Adacel's MaxSim products has dramatically increased student throughput, increased effective hands-on learning, expanded training and research capabilities, and it has also allowed the University to fulfill the increased demand of simulation services. With Adacel's MaxSim, UND will be able to provide users with training that allows the seamless transition from air traffic controller student to the real world, as well as, continue to set the pace for the future of flight.

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