

# TASK # CA007-08. ENHANCED AT-CPC TRAINING

## PROJECT AT-A-GLANCE

- UNIVERSITIES: Embry-Riddle Aeronautical University and University of North Dakota
- PRINCIPAL INVESTIGATORS: Paul Drechsel (UND), Marty Lauth (ERAU)
- STUDENT: Mattie Milner (ERAU)
- INDUSTRY PARTNER: TransLumen, UFA

## RELEVANCE TO TECHNICAL TRAINING AND HUMAN PERFORMANCE

- Air Traffic Control is a multifaceted system made up of many elements. While the technologies used in modern air traffic control systems have improved, the accreditation process and training techniques for experienced Certified Professional Controllers have remained mostly unchanged. Even though the use of high fidelity simulation is being used extensively throughout the industry's initial training process there is a need for a variety of low fidelity, lower cost, part task training that can deliver the information to experienced controllers in a Just-in-Time (JIT) format yet still maintain the integrity of a full simulation experience.

## STATEMENT OF WORK

- Identify requirements for enhanced / advanced training and
- Examine current methods of advanced training
- Review existing research on ATCS advanced training
- Evaluate benefit for providing this training at the FAA Academy in Oklahoma City
- Identify several alternatives for implementing the advanced training concept model and identify associated risks and limitations for each alternative.

## Advanced Air Traffic Controller Training



## STATUS

- Examined current methods of advanced training

## FUTURE WORK

- Review the FAA's courses for Proficiency Training to determine if delivery of individual courses could be modified to more effective and efficient delivery method.
- Review the research concerning training methods and delivery completed through the FAA COE SOAR. Analyze Project 6 survey results along with this review.
- Research to determine if the use of part task training can be accomplished affordably and in a mobile format.
- Determine whether the mainstream use of cloud based applications and mobile devices can be leveraged and introduced as training devices with integration of voice recognition and response capabilities.

# Publications, Presentations & Awards

- Publications: None
- Presentations: None
- Awards: None