



U.S. Department of Education
Office of Safe and Drug-Free Schools
Emergency Management for Higher Education



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Improving Emergency Planning, Response and Recovery with Virtual Alabama

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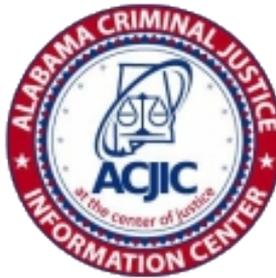
Project Director, Center for
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Auburn University at Montgomery

Jacob Cook's primary responsibilities stem from the Alabama Department of Homeland Security's Virtual Alabama School Safety Program. The program maps key aspects of school safety plans into a virtual platform, effectively creating digital inventories of critical infrastructure for school campuses. This platform provides first responders and emergency management personnel with greater situational awareness in the event of an emergency. During his tenure with the Center for Government and Public Affairs, Mr. Cook has also supported various projects with the Alabama Department of Postsecondary Education, Department of Finance, Alabama Medicaid Agency, Montgomery Public Schools and the City of Montgomery.

Lamar Davis provides consultative services primarily in the area of homeland security and is leading Auburn University Montgomery's efforts on the Virtual Alabama School Safety initiative. He also has extensive training and experience in strategic planning, organizational development, joint/combined operations, homeland security, and homeland defense.

Prior to joining the Center for Government and Public Affairs, Mr. Davis spent over twenty-two years on active duty with the military serving in a variety of positions. He retired as a Lieutenant Colonel and worked primarily in the areas of Counter-Narcotics, Counter-Terrorism, Homeland Security, and Homeland Defense. In the military, he worked with a variety of federal and state agencies including the DEA, FBI, U.S. Customs, Department of Homeland Security, Alabama Emergency Management Agency, Alabama Department of Public Safety, Alabama Bureau of Investigations, 67 Alabama county sheriff offices and local law enforcement agencies throughout the southeastern United States.

Mr. Davis is currently in the final stage of completing his Ph.D. in Public Policy from Auburn University. He earned a master's degree in human resources management from Troy State and a bachelor's degree in human resources management from Faulkner University.



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June 24, 2011

**Emergency Management for Higher
Education**

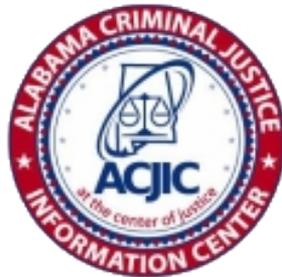
Overview

- **Purpose:** Bring university campuses into the State's common operating picture for emergency planning, response and recovery: Virtual Alabama
- **Process:** "Map" university campuses into Virtual Alabama, and train others to maintain those maps over time
- **Pay-off:** Better safety and security for students, faculty, staff and administrators in the face of man-made and natural disasters

Virtual Alabama Partnerships



Alabama Department of Homeland Security is the functional proponent for Virtual Alabama, and project management lead for this program



Alabama Criminal Justice Information Center is the application host Virtual Alabama and manages all technical-related security matters



Auburn University at Montgomery is the outreach/fielding agent for this program, and has trained infrastructure mapping personnel

Virtual Alabama Overview



- Virtual Alabama provides Alabama's first responders the situational awareness they need to protect lives and safeguard citizens before, during and after man-made and natural disaster
- Displays photographic imagery provided by the State in a secured Google Earth application
- Allows for the building and display of information layers; self-determined items of interest
- A no-cost tool available to Government/Education officials for State and local public operations

Campus Mapping Overview

- “Map” 37 items of interest, across the campus, as layers in Virtual Alabama



Hazardous Materials



Evacuation Routes



Disaster Staging Areas

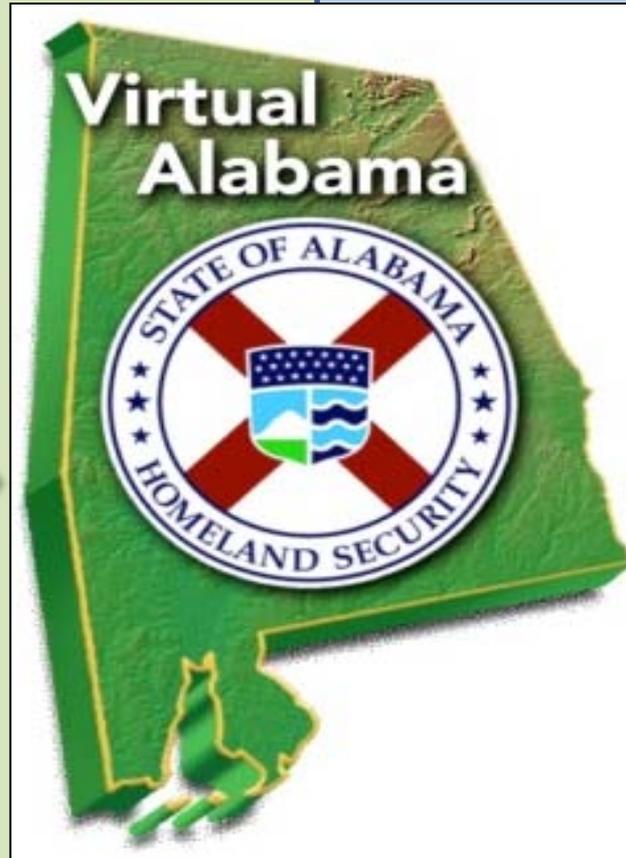


Video Cameras

- Promotes information sharing and planning between university administrators and first responders
- Provides first responders situational awareness from within universities, including real-time security camera feeds

Data Entry and Visualization

Data Entry



Visualization



E911

Local Memorandum Of Understanding

VAS³ Local MOU Establishes:

- VAS³ as the common operating system for disaster planning, response, and recovery in your community
- Parameters for who will be granted access to the VAS³ in your community
- Procedures for notification and password resets in the event of personnel changes

Memorandum of Understanding

Between the

<Name> School System, the <Name of Law Enforcement Agency>, the <Name of Law Fire Protection Agency> and <County> Emergency Management Agency

This memorandum of understanding is between the <Name> School District, the <Name of Law Enforcement Agency>, the <Name of Fire Protection Agency> and the <County> Emergency Management Agency (together known as "the parties"), and concerns the Virtual Alabama School Safety initiative.

WHEREAS, the Alabama Department of Homeland Security has established Virtual Alabama, a toolset of 3-D imaging technologies using a Google Earth platform, as the common operating platform

Information Security Overview

Application/Layer	Security Control
Virtual Alabama	AL Dept. of Homeland Security
Infrastructure Floor Plan/ Security Plan	University Administration (Working through ACJIC)
Security Camera Feeds	University Administration

Virtual Alabama

Live Demonstration

Virtual Alabama Additional Applications

Monrovia Fire Department- Asset Mapping/ Tracking



Personnel Room

Engine 212

Engine 512

© 2007 Madison Co

Pointer 34°47'12.97" N 86°43'26.13" W Streaming 100% Eye alt 97 ft

Engine 512



Engine 512 is a custom-built 2005 **E-One** Pumper equipped with:

- 330hp diesel engine, 5-speed automatic
- engine-powered 220V AC generator
- a 1500 gpm Q-max Hale pump
- 750 gallons of water
- 30 gallons of foam onboard for preconnects
- 1000' of 5" high-flow large dia hose (LDH)
- Three 1.5" pre-connects (2 crosslays & 1 front jump line)
- One 2.5" crosslay pre-connect
- 15' night scan light mast
- thermal imaging system
- air conditioning
- intercom with hearing protection headsets

Directions: [To here](#) - [From here](#)

Virtual Alabama Additional Applications

Tallapoosa County- Sex Offender Mapping

Name:
Ternell, Christopher Dewayne

Number: 3095
Lower Tuskegee Rd
Tallahassee, AL 36078

1 County Sexual Abuse 2nd
<http://www.virtualal.org/Offenders>

LATITUDE = 32 31' 02.17
LONGITUDE = -85 53' 08.66



Ruler

Line Path Polygon Circle

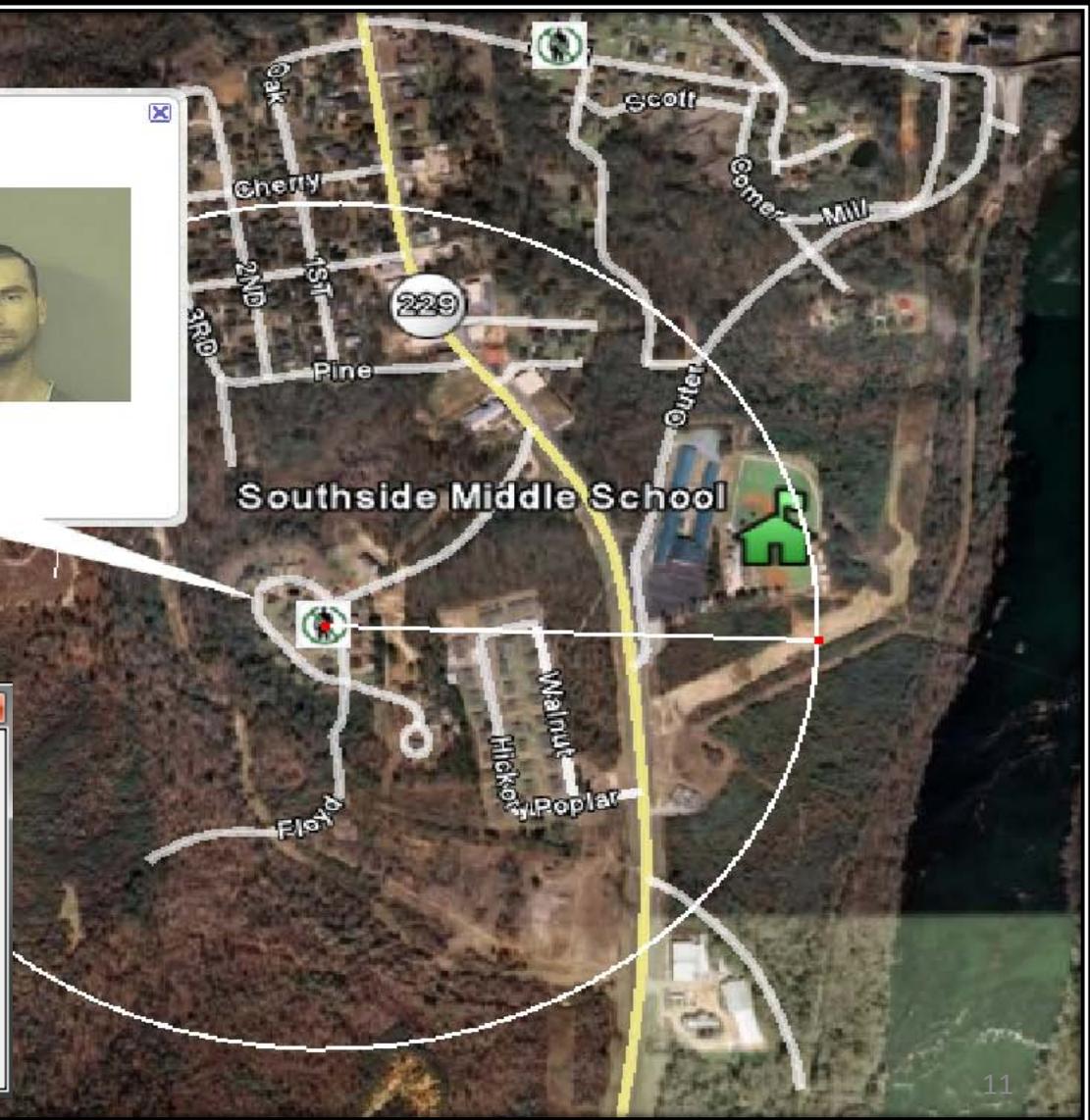
Radius: 2,000.84 Feet

Area: 0.45 Square Miles

Circumference: 12,585.03 Feet

Mouse Navigation

Clear



How to Use Virtual Alabama

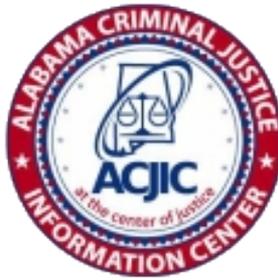
- Collaborative planning between university Administrators and First Responders
- Training and Exercises
- Nighttime/24 Hour/7-Day-a-Week Monitoring
- Incident Command for Real-World Emergencies

Site Visit Overview

- Conduct Stakeholder In-Briefing
- Draw Floor Plans into Digital Format (if needed)
- Walk Campus to Collect Data
- Work with Security Personnel/ First Responders to Identify Appropriate Staging Areas
- Work With Security Personnel/ Technology Personnel to Map Cameras into the System
- Provide Assistance on Establishing a Local MOU
- Conduct Stakeholder Out-briefing and Training₁₃

Outreach/ Fielding Team Contact Information

- Lamar Davis: (334) 244-3045
- Jacob Cook: (334) 244-3061



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