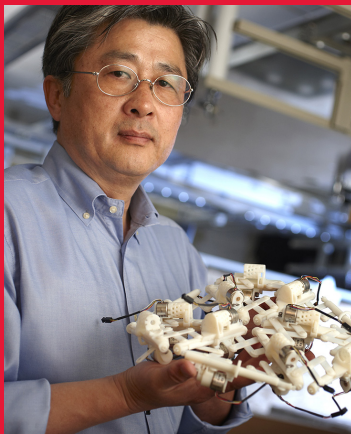




Faculty Expertise

UNLV faculty and students are actively researching a variety of UAS applications:

- Design
- Control Systems
- Communications Systems
- Sensor Development
- Automatic System Operations Monitoring
- Computational Platforms
- Intelligent System Health Monitoring
- Law and Policy



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Unmanned Autonomous Systems (UAS) at UNLV

UNLV is committed to high quality research and programs in robotics and unmanned autonomous systems, and is quickly becoming a hub for this burgeoning industry. An interdisciplinary team of scientists, engineers, policy and legal experts are active partners with state research and economic development agencies.

UNLV was a partner in Nevada's effort to become one of six Federal Aviation Administration designated locations to test, research, and develop unmanned aerial systems.

UAS Research Highlights

Engineering Professor Woosoon Yim and a team of graduate students are developing a robotic aerial platform that operates autonomously for disaster remediation in GPS-denied environments. The group is working on issues related to sensors and flight control, as well as creating a mock-up flight testing facility. This research is funded by the National Science Foundation.

Engineering professor Paul Oh is creating unmanned aerial vehicles with limbs that could help repair bridges, conduct underwater salvage missions, or disable IEDs. This research is funded by the National Science Foundation.

The UNLV Center for Crime and Justice Policy issued a series of research briefs on public attitudes toward drone technology in Nevada and throughout the United States.



Contact:

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Degree and Certificate Programs

The Howard R. Hughes College of Engineering offers a Master of Science in Aerospace Engineering for students seeking careers supporting engineering work for the aerospace and aviation technology community. The College also offers a minor and certificate program in unmanned aircraft systems (UAS), focusing on unmanned surveillance, data collection and communication systems. The program's core includes an introduction to UAS, UAS simulations training, and a class on privacy issues taught by the William S. Boyd School of Law.

DARPA Robotics Challenge

Professor Paul Oh heads the Drones and Autonomous Systems Lab and is the UNLV Lincy Professor for Unmanned Aerial Systems. Oh's team of researchers and students is competing in the DARPA Robotics Challenge, hosted by a sub-agency of Department of Defense. The worldwide contest inspires top roboticists to develop an autonomous robot that can assist humans responding to natural and man-made disasters.

Building Businesses

UNLV alumni Greg Friesmuth and Jinger Zeng recently started Skyworks Aerial Systems using technology and theories learned in College of Engineering labs. The two partnered with the Lee Business School on a business plan that won the Southern Nevada Business Plan Competition. The robotics company develops aerial robots for scientific and industrial use and employs UNLV students and alumni.

