



# On Ramp to the UAS Profession

**Introduction to Unmanned Systems:  
Air, Ground, Sea and Space**

Technologies and Commercial Applications

Dr (Col Ret) Jerry LeMieux



**Introduction by Brian Binnie**

SpaceShipOne Test Pilot/Commercial Astronaut

[www.uxvuniversity.com](http://www.uxvuniversity.com)

Dr Jerry LeMieux  
*UNMANNED EDUCATION*

THE

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*Dedicated to Unmanned*  
*Air, Ground & Sea & Space*



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Call > 602-759-7372  
Fax > 602-532-7672  
[www.uxvuniversity.com](http://www.uxvuniversity.com)

# On Ramp

- Many unmanned systems leaders here today
- UVU building future leaders for next generation
- Applied courses, aero/mech/elec eng, “Aeromechatronics”
- On campus and online
  - On campus starts Sept 30
- Certifications in systems engineering and/or project management with professional organizations
  - International Council on Systems Engineering
  - Project Management Institute (PMI)
- Average faculty, PhD & 25-40 years experience
  - Combined experience > 500 years

# Commercial UAV Applications

## Save Time, Money, Reduce Risk

### 200 Commercial Applications

• Precision Agriculture	• Cinematography	• Entomology	• Pipeline Inspection	• Wildlife Research	• Crowd Control
• Plant Fertility Assess	• Virtual Tours	• Forestry Inspection	• Chimney Inspection	• Archaeology	• Training
• Plant Water Content	• Hydrologic Modeling	• Fisheries Management	• Inspect HAZMAT	• Com Relay	• Traffic Accident
• Plant Disease Detect	• Geomorphic Model	• Species Conservation	• Motion Pictures	• Crop Dusting	• VIP Security
• Weed Mapping	• Flood Risk	• Wildlife Inventory	• Inspect Landmarks	• Monument Inspect	• Topographic Maps
• Invasive Plants	• Law Enforcement	• Mineral Exploration	• Aerial Photography	• Windmill Inspect	• News Coverage
• Insect Attack Warning	• Pollution Monitor	• Remote Aerial Survey	• Manage Fisheries	• Dam Inspection	• HAZMAT
• Vegetation Identification	• Photogrammetry	• Forest Fire Surveillance	• Transmission Line	• Nuclear Inspection	• Biological Agent Detect
• Selective Harvesting	• Tidal Zone Mapping	• Forest Fire Mapping	• Inspect Icebergs	• Runway Inspection	• Event Security
• Canopy Management	• Solar Panel Inspect	• Volcano Monitoring	• Real Estate Marketing	• Urban Planning	• Port Security
• Herd Tracking	• Anti-Piracy	• Remote Aerial Mapping	• Crop Dusting	• Gravel Pit Inventory	• Construction
• Telecommunications	• Algae Proliferation	• Oil Spill Tracking	• Aerial Land Survey	• Preserve Culture	• Forensic Photography
• High Altitude Imagery	• Rail Track Bed Inspect	• Snow Pack Avalanche	• Volcano Monitoring	• Petroglyph Preservation	• Air Sampling
• Maritime Surveillance	• Ocean Research	• Ice Pack Monitoring	• Surveillance	• Oil Discovery	• Entomology
• Media	• Saltwater Infiltration	• Poaching Patrol	• Predict Hurricane	• Predict Landslides	• Avalanche Monitor
• Traffic Monitoring	• Landmark Inspection	• Insurance Claims	• Predict Earthquake	• Discover Faults	• Medical Supply Delivery
• Disaster Relief	• Illegal Ship Bilge Venting	• Public Safety	• Wildlife Research	• Highway Design	• Customs & Border
• Real Estate Photography	• Emergency Com	• Firefighting	• Archaeology	• Traffic Flow Analysis	• Atmospheric Profile
• Meteorology	• Terrain Mapping	• Golf Resort Market	• Food Delivery	• Crash Reconstruct	• Cloud Properties
• Hurricane Monitoring	• Sand Bank Shift	• Search and Rescue	• Com Relay	• Prevent Graffiti	• Coastal Patrol
• Cryospheric Research	• Hydrometric Mapping	• Training	• Crop Dusting	• Poaching Patrol	• Ozone Chemistry
• Bridge Inspection	• Traffic Accident Analysis	• Meteorology	• Oil Rig Inspection	• Sports Event	• Highway Roughness
• Transmission Line Inspect	• Highway Design	• Stadium Events	• Predict Earthquake	• Mineral Exploration	• Hurricane Genesis
• HAZMAT Inspection	• Parking Utilization	• Inspect Pipelines	• Crime Investigation	• Journalism	• Coastal Change
• Emergency Medical Supply	• FedEx Unmanned Cargo	• Power Restoration	• Landslide Prediction	• Meteorology	• Boston Marathon
• Aerial Surveying	• Instant Consumer Grat	• Newspaper Delivery	• Predict Earthquakes	• Sea Level Rise	• Seismology
• Damage Assessment	• Advertising	• Fire Prevention	• Railroads	• Roof Inspection	• Archeology
• Insurance Claim Appraisal	• Coastline Surveillance	• Wind Turbine Blade	• Forest Management	• Fishing Enforce	• Bank erosion
• Shark Watch	• Pavement Roughness	• Fire Risk Assess	• Cloud Measurement	• Wind Turbine Brake	• Climate Monitoring
• Concert Security	• Animal Rights Groups	• Marine Sanctuary	• Aerosol Measurement	• Oil Spill Detect/Monitor	• Internal Tornado Measure
• Sports Video	• Prevent Extinction	• River Discharge	• Coastal Water Quality	• Forest Health	• Forest Regeneration
• Runway Inspection	• Ant-Whaling	• Ship Collision	• Maritime Surveillance	• Tree Illness Monitor	• Volcano Ash Measurement
• Virtual Tours	• Meteorology	• Maritime Mammals	• Work Documentation	• Criminal Car Tracking	• Tree Growth
• Coffee Harvest	• Flood Warning	• Train Crashes	• Geophysical Survey	• Nuclear Radiation Meas	• Construction Document



# UVU Phoenix Campus





# UVU Campus

## 1 E Washington St 5<sup>th</sup> Floor





# Targeted Jobs

- UAV Program/Project Manager
- UAV Systems Engineer
- UAV Flight Test Manager
- UAV Systems Researcher
- UAV Internal/External Pilot
- UAV Systems Analyst
  - A student took only our UAV Fundamentals course
  - Applied for and was hired as a UAV analyst at AAI Corp
  - No prior experience
  - Used UAV Fundamentals Certificate
  - Salary: \$100,000

# Unmanned Jobs

## [Project Manager, C4I Systems-Unmanned Aerial System](#)

General Dynamics - IT ★★★★★ 87 reviews - California, MD  
Provide integration support for **unmanned** aerial systems aboard designated aviation compatible ships including the FireScout UAV, Navy **Unmanned** Combat Air System...  
36 days ago - [save job](#) - [email](#) - [more...](#)

## [NAVSEA SR. PROGRAM MANAGER-UNMANNED UNDERSEA VEHICLES J](#)

CACI International Inc ★★★★★ 102 reviews - Washington, DC  
Lead delivery of complex consultancy services to NAVSEA clients involving the full spectrum of strategic planning and acquisition support for **unmanned** undersea...  
From CACI International - 30+ days ago - [save job](#) - [email](#) - [more...](#)

## [Sr Project Engineer - Unmanned Systems](#)

Global Network Recruiting - Maryland  
Apply for Sr Project Engineer - **Unmanned** Systems. Any experience with the following would be a PLUS ... **unmanned** systems, aircraft systems and computerized...  
36 days ago - [save job](#) - [email](#) - [more...](#)

## [Unmanned Systems Engineer Sr Staff - UAV UGV Robotics Contro...](#)

Global Network Recruiting - Texas  
Team orientation/creative partnering to solve problems. Depth and breadth of industry/marketplace/competitor knowledge within the design disciplines...  
30+ days ago - [save job](#) - [email](#) - [more...](#)

## [AERO-MD-PA-12-183: Air Vehicle Operator/Mission Commander - new](#)

Wyle ★★★★★ 3 reviews - Patuxent River, MD  
Current **unmanned** Mission Commander or Tactical Coordinator qualifications. Formerly qualified as a Tier II Plus or higher **unmanned** aerial system operator...  
14 hours ago - [save job](#) - [email](#) - [more...](#)

## [Engineering Intern - new](#)

AeroVironment, Inc. - Monrovia, CA - +1 location  
Additional Details AeroVironment is a technology solutions provider that designs, develops, produces and supports an advanced portfolio of **Unmanned** Aircraft...  
2 hours ago - [save job](#) - [email](#) - [more...](#)

## [Software Developer I - new](#)

General Atomics - ASI Unit - Poway, CA  
This system consists of ground based workstations that function as pilot and crew interface to the aircraft as well as the airborne software that controls all...  
10 hours ago - [save job](#) - [email](#) - [more...](#)

## [Software Developer I - new](#)

Aeronautical Systems ★★★★★ 11 reviews - Poway, CA  
This system consists of ground based [workstations](#) that function as pilot and crew interface to the aircraft as well as the airborne software that controls all...  
14 hours ago - [save job](#) - [email](#) - [more...](#)

## [Unmanned Maritime System Logistician SP12-0975-0031](#)

Whitney, Bradley, & Brown, Inc. - Panama City, FL  
Experience tailoring [logistics](#) for **Unmanned** Maritime Systems. Description WBB is seeking an **Unmanned** Maritime System Logistician....  
3 days ago - [save job](#) - [email](#) - [more...](#)

## [Unmanned Systems Software Engineer](#)

The Johns Hopkins Applied Physics Laboratory ★★★★★ 4 reviews - Laurel, MD - +1 lo  
BS in computer science, computer engineering, electrical engineering, mathematics, mechanical engineering or closely related field with 2+ years of relevant...  
9 days ago - [save job](#) - [email](#) - [more...](#)

## [Unmanned Maritime System Test & Evaluation Engineer SP12-097...](#)

Whitney, Bradley, & Brown, Inc. - Panama City, FL  
**Unmanned** Maritime System Test & Evaluation Engineer. Experience with planning and executing **Unmanned** Maritime System performance verifications...  
3 days ago - [save job](#) - [email](#) - [more...](#)

## [Unmanned Aerial System Lead Test Engineer](#)

Modern Technology Solutions, Inc. - Lawton, OK  
developmental test and evaluation policy and procedures, operational test and evaluation policy and procedures, DoD/DHS acquisition management, CONOPS...  
6 days ago - [save job](#) - [email](#) - [more...](#)

## [Unmanned Air Systems Analyst, Senior Job](#)

Booz Allen ★★★★★ 164 reviews - Dayton, OH  
3+ years of experience with UAS airspace integration development. Experience with cockpit and payload evaluation...  
From Booz Allen Hamilton - 11 days ago - [save job](#) - [email](#) - [more...](#)

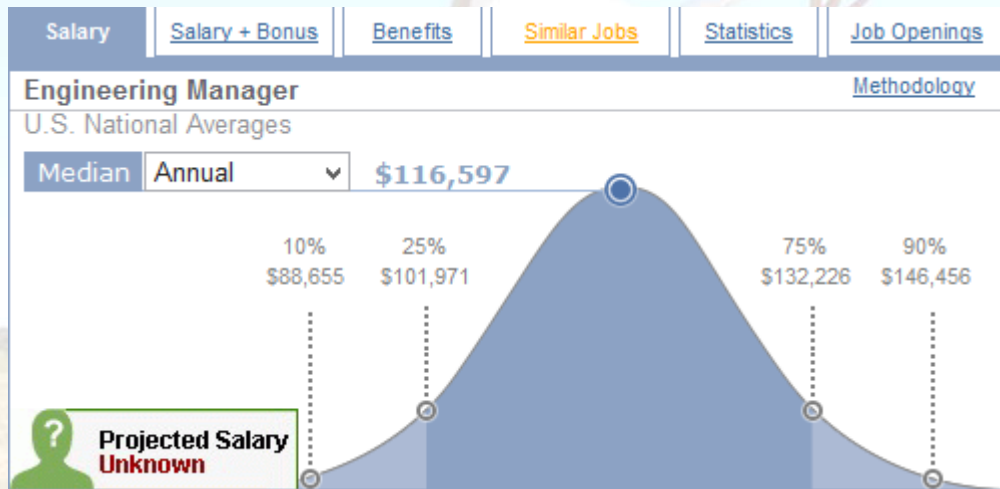
## [Unmanned Aircraft System Simulation Manager](#)

Embry-Riddle - Daytona Beach, FL  
Once you have created your account, you will be able successfully [apply](#) for the vacancy of your choice....  
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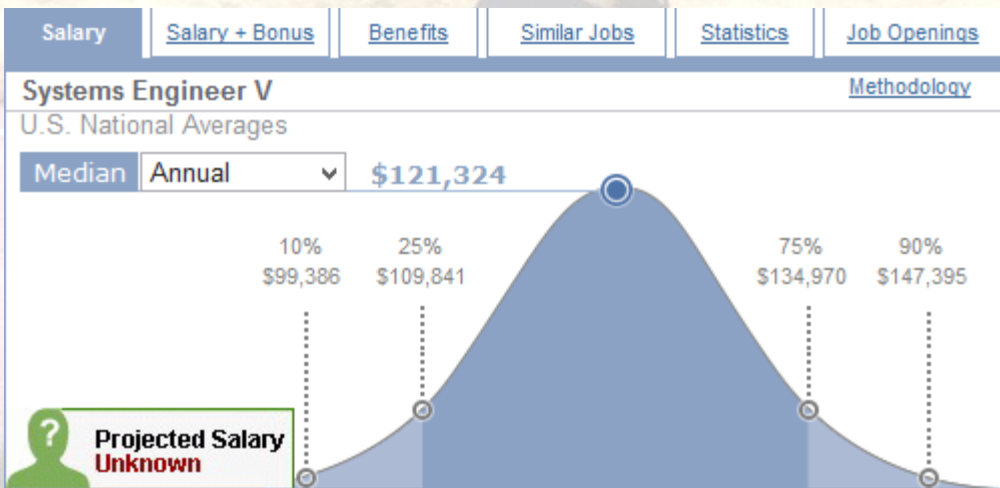
## [Software Developer - Unmanned Aircraft Products](#)

Dynetics, Inc ★★★★★ 2 reviews - Huntsville, AL  
Responsibilities will include contributing to design and implementation for client processing to display information through web-deployed applications,...  
24 days ago - [save job](#) - [email](#) - [more...](#)

# Salary.com National Average



Program Manager  
\$88,000 - \$146,000



Systems Engineer  
\$99,000 - \$147,000

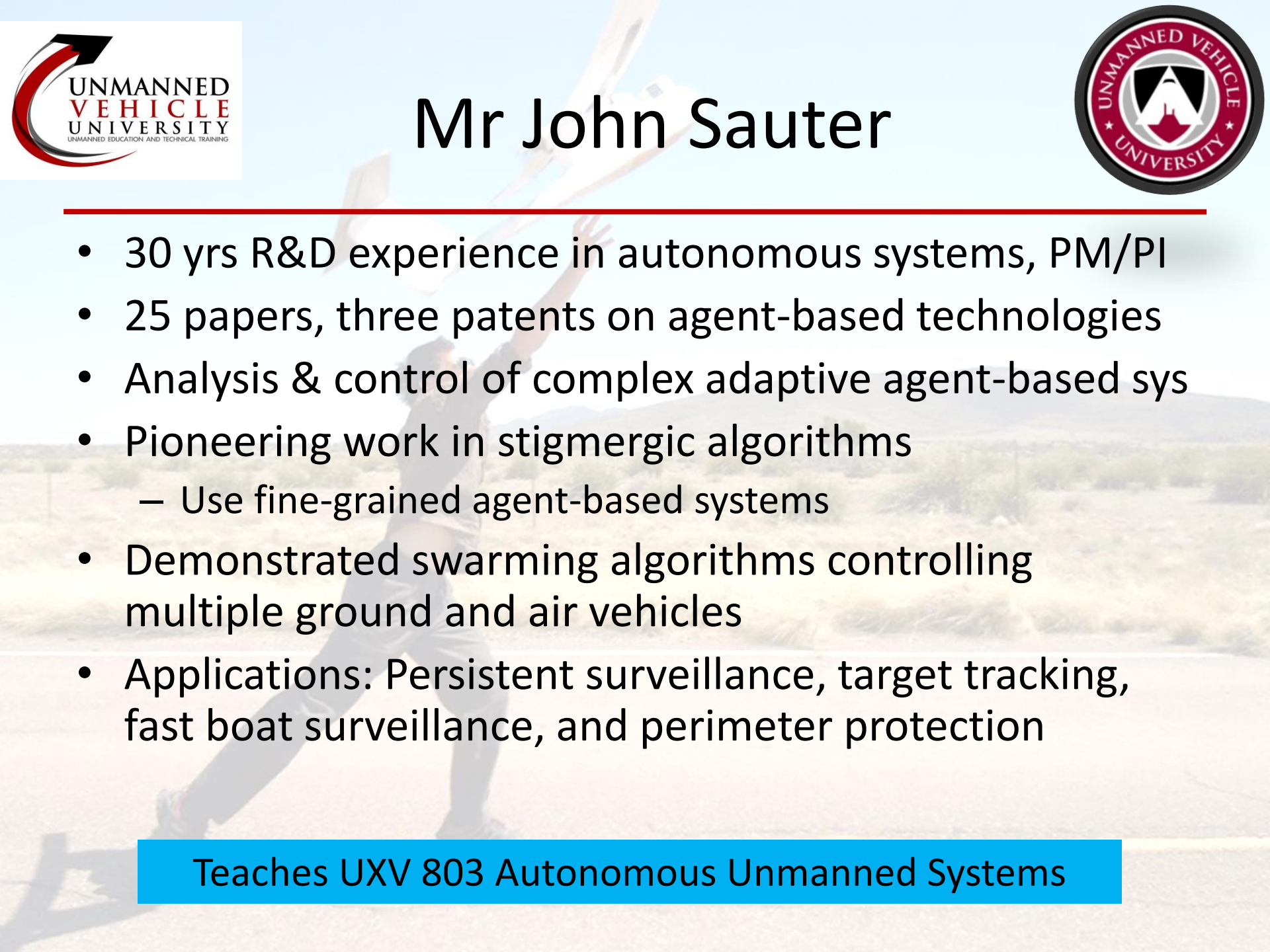




# Dr Robert Jacobs

- 35 years exp as technical, program and executive manager
- BS Sys Eng UCLA, MS Ops Research USC, Ph.D. Human Factors
- Focus Areas:
  - HMI design, sim for engineering development and training
  - AI for crew system decision aiding and automation
- Aerovironment: Global Observer user interface design
- DARPA SIMNET, 236 networked crew simulators
- Systems engineer and AI study manager for GCS
- Commercial instrument, multiengine, CFI with 1500 hours

Teaches SYS 601 Fundamentals of Modern Systems Engineering



# Mr John Sauter

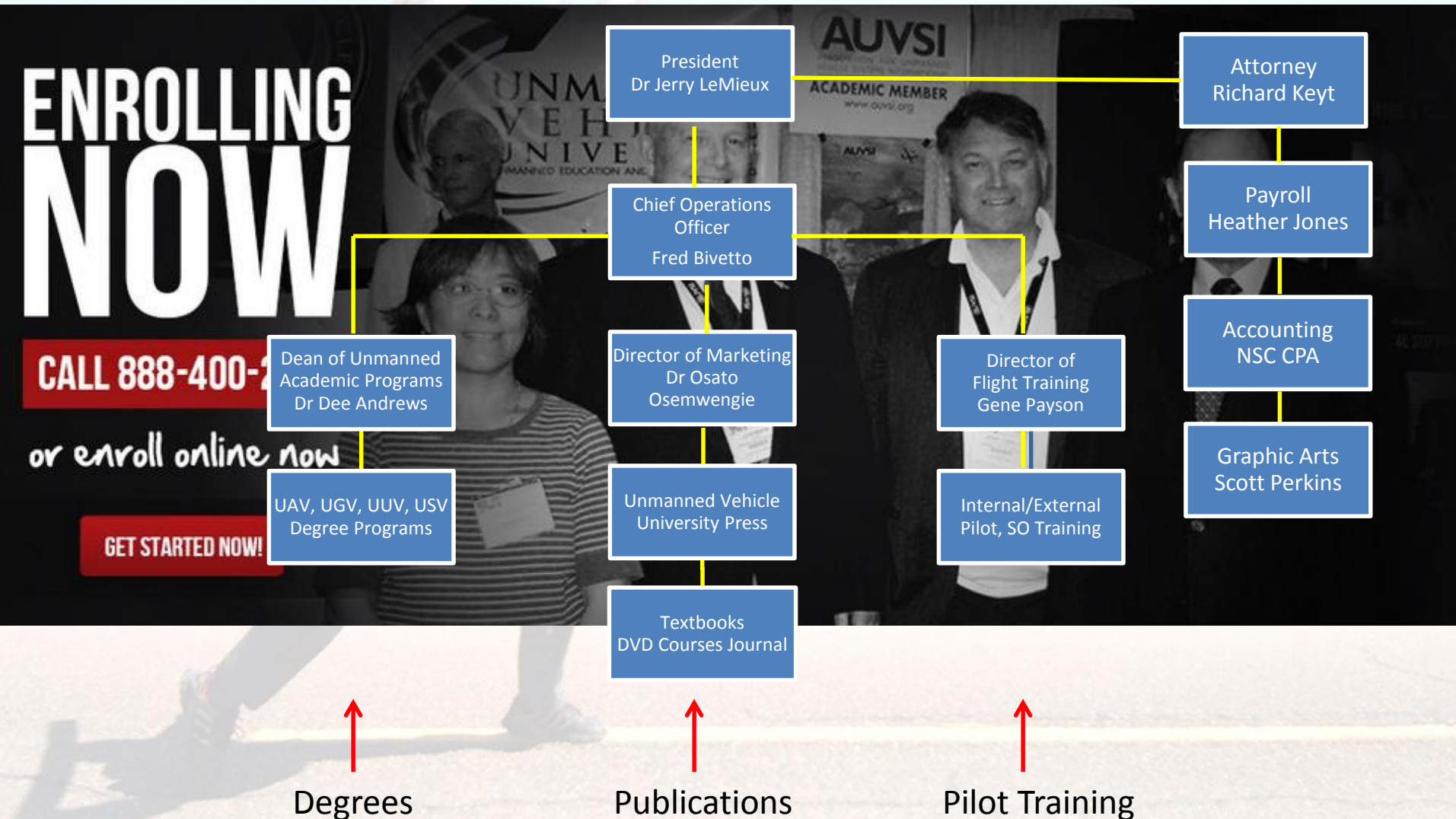
- 30 yrs R&D experience in autonomous systems, PM/PI
- 25 papers, three patents on agent-based technologies
- Analysis & control of complex adaptive agent-based sys
- Pioneering work in stigmergic algorithms
  - Use fine-grained agent-based systems
- Demonstrated swarming algorithms controlling multiple ground and air vehicles
- Applications: Persistent surveillance, target tracking, fast boat surveillance, and perimeter protection

Teaches UXV 803 Autonomous Unmanned Systems





# UVU Org Chart





# Academic Programs

Air, Ground, Sea and Space Vehicles

- Doctorate, Masters, Professional Certificate
- Unmanned Aircraft Vehicle Systems Engineering
- Unmanned Ground Vehicle Systems Engineering
- Unmanned Underwater Systems Engineering
- Unmanned Space Vehicle Systems Engineering

Entrance Requirements

Graduate Degree = Bachelors + calculus

Professional Certificate = High school diploma or other degree





# University Goals

1000's of companies, 100s of Thousands of Jobs Coming



- Education and training in unmanned systems
- Focus on engineering not operations
  - Vehicles are very complex in terms of technology
  - Systems engineering approach
    - For efficiency and safely
  - Integrate engineering into courses
    - Not teach separately

World Class Programs for Unmanned Air, Ground, Sea and Space Vehicle Engineering

[Manifesto](#)[Blog](#)[About Us](#)[The Book](#)[Store](#)

## Innovator's Notebook: A New Approach to Unmanned Systems Engineering Education

NOVEMBER 30, 2012 BY [DAVID GOLDBERG](#) [LEAVE A COMMENT](#)



*Editor's note:* This entry is a guest post from Dr (Col Ret) Jerry LeMieux, President, Unmanned Vehicle University, [www.uxvuniversity.com](http://www.uxvuniversity.com). I had the privilege the other day of talking to Jerry about his vision, and



I was struck by the number of innovations in scope, delivery, faculty, and approach of Unmanned Vehicle University, especially as a vehicle for graduate education delivery. The Innovator's

Notebook solicits stories of educational innovation of possible interest to readers of the Big Beacon blog. Send your ideas (short paragraph) or submissions (350-700 words) to Dave Goldberg ([dog@bigbeacon.org](mailto:dog@bigbeacon.org))

### Recent Posts

[Getting Started Block](#)[Leadership, NOT Management – Always ...](#)[Engineers Rule the World \(or do they?\)](#)[NOT Teachers But Facilitators / Mentors](#)[Twitter Chat: Engineers Make Lives Better!!!](#)[Twitter Chat: Creativity in Engineering](#)

### Categories

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# Unmanned Aircraft Systems

Thousands of New Companies





# Master's in Unmanned Aircraft Systems Engineering

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UAV 601 Unmanned Aircraft System Fundamentals	6
MAT 701 Numerical Analysis	6
UAV 801 UAV Aerodynamics and Flight Stability	9
UXV 803 Unmanned Systems Autonomy	9
SYS 601 Fundamentals of Modern Systems Engineering	6
UAV 701 UAV Optical, Infrared and Radar Sensors	6
SYS 701 Project Management of Complex Systems	6
UAV 702 Unmanned Aircraft Flight Test and Evaluation	6
Total Credits	54





# Certificate in Unmanned Aircraft Systems Project Management



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UAV 601 Unmanned Aircraft System Fundamentals	6
UAV 603 Small UAV Design & Construction	6
UAV 701 UAV Visible, Infrared, Laser and Radar Sensors	6
SYS 701 Project Management of Complex Systems	6
Total Credits	24

One year program high school diploma required for entry  
Unmanned Aircraft System Project Manager

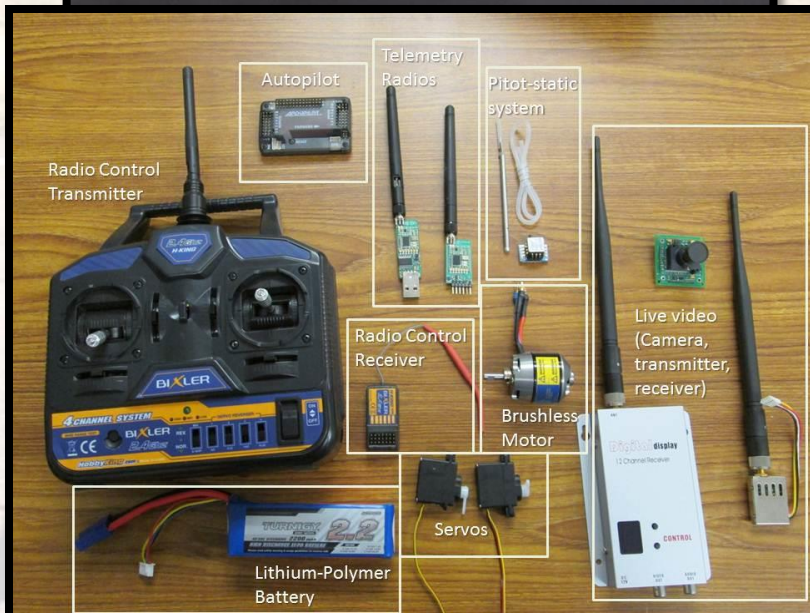
Low level project manager employment

# Small UAV Design & Construction

## List of Labs



- Assemble the airframe
- Install external pilot controls
- Range test the external pilot controls
- Bench test motor and power system
- Install motor and power system
- Bench test autopilot and sensors
- Install autopilot and sensors
- Become familiar with GCS software
- Run hardware in the loop simulation
- Tune autopilot
- Bench test video payload
- Install video payload
- Install autopilot telemetry modem





# Driverless Cars

## Unmanned Ground Vehicles



**iRobot®**

**BMW**

**GM**

**Cadillac**

>2025	2020	2016
<b>FULLY AUTOMATED</b> <ul style="list-style-type: none"><li>Monitoring of the system not required</li><li>Driver does not need to be able to take over the driving task</li><li>Example: Highway driving up to 130 km/h</li></ul>	<b>HIGHLY AUTOMATED</b> <ul style="list-style-type: none"><li>Monitoring of the system not required</li><li>Driver needs to be able to take over the driving task with lead time</li><li>Example: Stop-and-go (highway)</li></ul>	<b>PARTIALLY AUTOMATED</b> <ul style="list-style-type: none"><li>Monitoring of the system required</li><li>Driver needs to be able to take over the driving task at any moment</li><li>Example: Stop-and-go up to 30 km/h</li></ul>

The main image depicts a multi-lane highway with several cars. In the foreground, three yellow convertibles are driving. A black sedan is in the lower center. In the background, a green car and a red car are visible. The sky is blue with some clouds. The informational panels are overlaid on the right side of the highway. The logos for iRobot, BMW, GM, and Cadillac are arranged vertically on the left side of the image. An inset image in the bottom right corner shows a person sitting in the driver's seat of a car, looking at a map or a tablet, with the car's dashboard and steering wheel visible.





# Masters in Unmanned Ground Vehicle Systems Engineering

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UGV 602 Unmanned Ground System Fundamentals	6
MAT 701 Numerical Analysis	6
UGV 801 Autonomous Intelligent Control Systems	6
UGV 806 Advanced Motion Planning	6
UXV 701 Optical Infrared & Radar Sensors	6
UXV 804 Introduction to Robotics	6
SYS 601 Fundamentals of Modern Systems Engineering	6
SYS 701 Project Management of Complex Systems	6
UXV 805 Human Robot Interface	6
Total Credits	54



# Francis Govers

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- 20 yrs exp, designed over 20 UUV, UGV and UAV
- Director of the Advanced Simulation Laboratory
- Head of Flight Sim for F-35 Joint Strike Fighter
- Inventor of the Decision Support Center
- Deputy Chief Engineer for Army FCS
- Participant in first DARPA Grand Challenge Race
- Chief Engineer for Elbit Systems of America
- Board of Directors of the National Space Society

Teaches UGV 601 Unmanned Ground System Fundamentals

# Dr Rob Finkelstein

- 40 years exp intelligent systems & robotic vehicles
- PhD in Systems Theory & bCybernetics George Washington Univ
- Authored over 200 technical reports and studies
- Patent for Energetically Autonomous Tactical Robot (EATR),
- Co-Director of the Intelligent Systems Laboratory, Univ of Maryland
- Board of Directors for AUVSI
- Books include
  - Unmanned Vehicle Systems: Military and Civil Robots for the 21st Century and Beyond, Pasha Publications (1994),
  - Defense Year-Book 1992 (“Combat Robotics: From the Kaiser to the New World Order”), Brassey’s Publications
  - Military and Civil Robotics: Intelligent Machines in War and Peace

Teaches UGV 801 Autonomous Intelligent Control Systems





# Student Testimonial

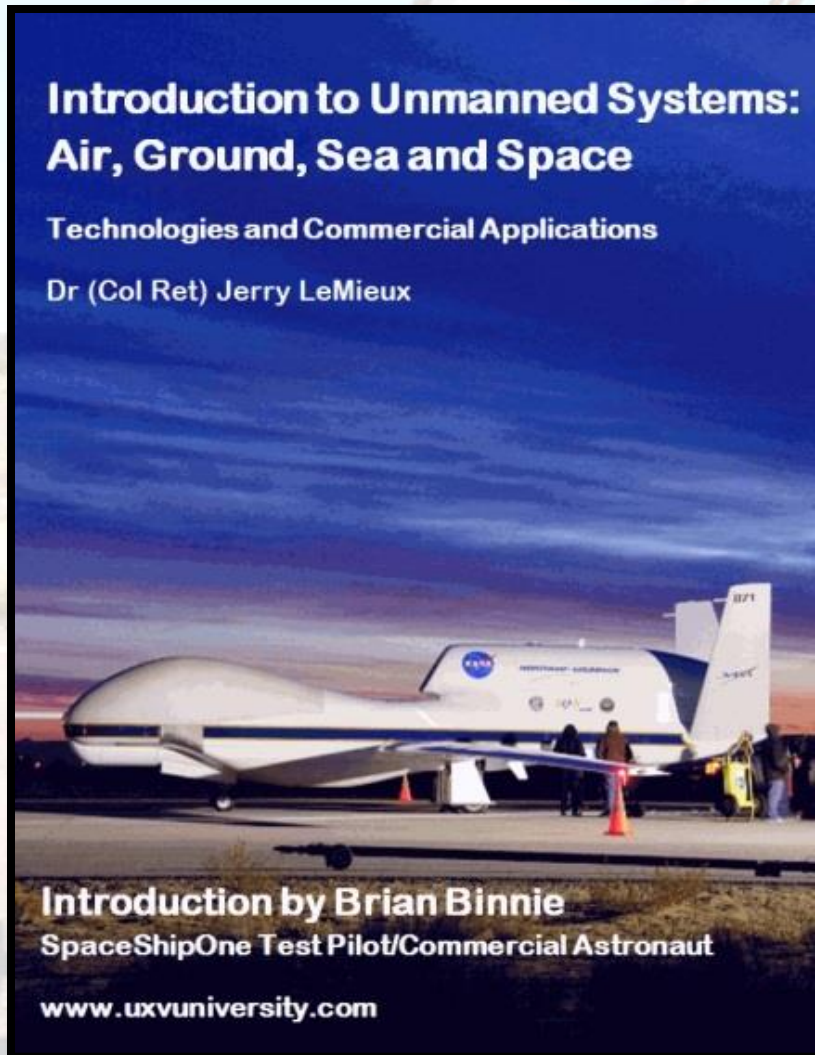
Charles Greene, North Carolina

BS in Mechanical Engineering

Masters Degree in Unmanned Ground  
Vehicle Systems Engineering

No pay, no extra credit, student did not  
know questions beforehand, no rehearsal

# Unmanned Vehicle University Press



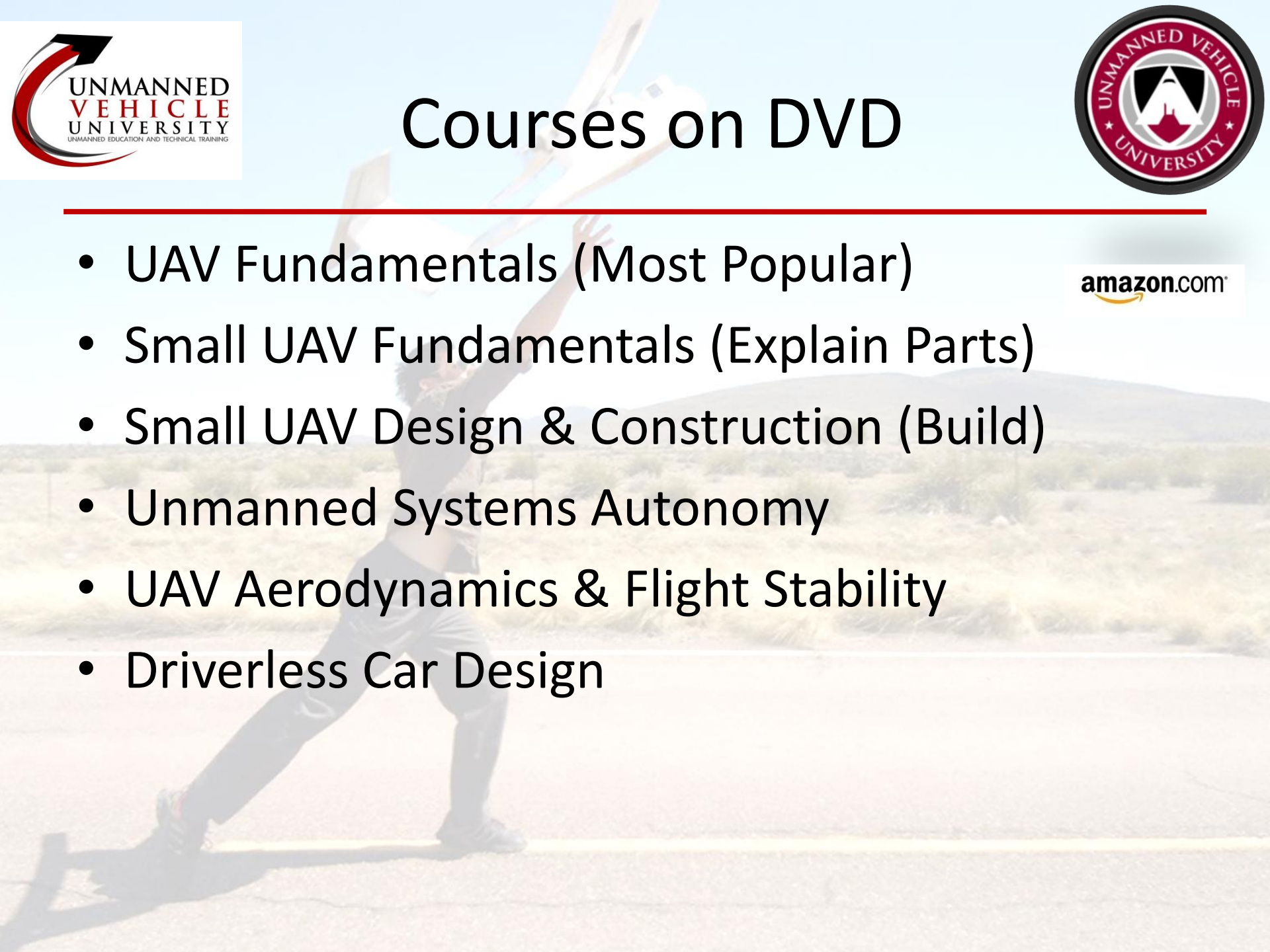
First Textbook on Unmanned Systems. Includes Questions Written by UVU Faculty Universities Evaluating

Describes Unmanned Air, Ground, Sea and Space Vehicles

Describes Common Technologies

Into by Brian Binnie, SpaceShipOne Test Pilot and Commercial Astronaut

**amazon.com**<sup>®</sup>



# Courses on DVD

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- UAV Fundamentals (Most Popular)
- Small UAV Fundamentals (Explain Parts)
- Small UAV Design & Construction (Build)
- Unmanned Systems Autonomy
- UAV Aerodynamics & Flight Stability
- Driverless Car Design

amazon.com





# Live On-Site

## Certificate Courses

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- UAV Fundamentals (Most Popular)
- Small UAV Fundamentals (Explain Parts)
- Small UAV Design & Construction (Build)
- Micro Air Vehicle Design
- Unmanned Systems Autonomy
- Driverless Car Design
- Unmanned Ground Vehicle Fundamentals
- Unmanned Underwater/Surface Fundamentals

# International Journal on Unmanned Systems Engineering



- Website [isuseng.com](http://isuseng.com)
- Dedicated to unmanned systems engineering
- Promotes the advancement of the applied science
- Dissemination of original research
- Significant advances in
  - Design, development, test & operation

International Journal  
of Unmanned Systems Engineering  
(IJUSEng)



Official Journal of  
Unmanned Vehicle University

# International Journal on Unmanned Systems Engineering

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- The Editorial Board will consider
  - High quality original research articles
  - Review articles
  - Point-of-view articles
- Correspondence, technical notes and reports
- Unmanned Air, Ground, Sea and Space vehicles
- Scope is wide, covering research, design, development, operation, safety and reliability



# International Journal on Unmanned Systems Engineering

Special Issue on  
*Unmanned Maritime Systems Engineering:  
Recent Advances and Future Research*

UVU  
Official  
Journal

This special issue is expected to be an effective channel for researchers to report the latest findings in all aspects of autonomous maritime system technologies, while proposing new ideas and directions for future development.

## Schedule for Special Issue

### *Deadline for papers:*

Wednesday 31<sup>st</sup> July 2013

### *Peer-review and editing:*

August & September 2013

### *Publication of special issue:*

October 2013

### *Instructions for authors:*

Visit [www.ijuseng.com](http://www.ijuseng.com)



IJUSEng

Further information and manuscript submission, please contact:  
Dr Pascual Marqués, Unmanned Vehicle University (UK).  
[editor@ijuseng.com](mailto:editor@ijuseng.com)



# 1<sup>st</sup> World Congress on Unmanned Systems Engineering (WCUSEng)

July – August, 2014 - Oxford, United Kingdom

## Call for Abstracts & Full Papers

Air Systems

Ground Systems

Maritime Systems

Space Technologies

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business professionals World-wide to  
present the latest innovations and  
future research directions in  
Unmanned Systems Technology*

Submissions & Registration: [www.ijuseng.com](http://www.ijuseng.com)



IJUSEng



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# Recent Media

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- ABC Nightline News
- Smithsonian Air & Space Magazine
- Fox News
- Italy Newspaper Le
- Over 100 interviews & articles

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## Drone U. rides flight boom

Pilot founds first university dedicated to unmanned systems

COMMENTS (70) SIZE: + / - PRINT



By [Ben Wolfgang](#) - The Washington Times

Sunday, August 26, 2012



Enlarge Photo

Retired Air Force Col. Jerry LeMieux, founder of the Unmanned Vehicle University, ...  
[more >](#)

For all of the skeptics and detractors it has produced, the drone industry also has its vocal supporters.

Few are louder than [Jerry LeMieux](#), a retired Air Force colonel, commercial airline pilot, college lecturer and, most recently, the founder of the world's first university dedicated solely to unmanned systems education.

"At the end of the day, I'm just trying to do something good for the unmanned systems community," he said at the drone sector's [Las Vegas trade show](#) earlier this month.

"It's something that I look at as very important. What's my motivation for doing this? Everybody has a little bit of a teacher in them. Now, I'm finally able to do it on a larger scale."

Col. LeMieux's school is one of several trying to get off the ground, literally and figuratively, with [colleges and universities](#) across the country seeking a piece of what is expected to be a business boom in the drone market in the coming years.

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## 'Drone U' aims to build leaders in a soaring field

BY KEITH ROGERS  
LAS VEGAS REVIEW-JOURNAL

Posted: Sep. 1, 2012 | 2:02 a.m.

They don't have a football team yet, and their mascot might as well be a triangular-shaped drone, like the white flying wing featured in the school's maroon-and-gray logo.

But Unmanned Vehicle University, or UVU as President Jerry LeMieux calls it, has a faculty, students and an online curriculum that offers unmanned systems engineering classes, and master's degrees and doctorates.

And they're heading into fall classes with hopes of soon publishing their first textbook and building a campus in Lake Havasu City, Ariz.

"We're rolling ahead here," LeMieux, a retired Air Force colonel and former Delta Air Lines pilot, said in a telephone interview this week.

"You can't find another school like this on the planet."

### Tools



FOR MORE  
INFORMATION

[www.uvuniversity.com/](http://www.uvuniversity.com/)

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# ABC Nightline Interview

April 24, 2013

