Launched in 2014, UST is the first ever publication to focus entirely on providing independent coverage of the engineering of unmanned systems. UST has grown at an exponential rate. Continuing to be published bi-monthly, UST probes the cutting-edge projects of today to provide in-depth research insights, using rigorous investigation backed by professional peer review and critical analysis.

UST is an invaluable resource of actionable intelligence for engineers whilst also providing a targeted promotional platform for those with products and services of interest to them. If you want to seize more than your fair share of the fresh opportunities being created in this exciting sphere, then UST is an absolute must.

Platform one

The UST news section is focused on technological development. Business and politics are only covered in so far as they impact directly on engineering solutions. From the outset UST has established itself as a publication that deals in hard science.

UST insights

Insights reveal the latest technological advances across all unmanned vehicle platforms, as well as a number of specific industry applications. UAVs, UGVs, UUVs, USVs and Unmanned Space Vehicles will all take their place in the spotlight, as well as sectors utilising this burgeoning technology including Mining, Agriculture, Surveillance, Inspection & Security applications. UST is dedicated to providing invaluable knowledge for engineers.

Unmanned vehicle dossiers & digests

Each issue of UST contains at least one main dossier and one digest offering an incredibly detailed look at a high-profile unmanned vehicle project, revealing many secrets of the technology that are simply not reported anywhere else.

Powerplant dossiers

The world of unmanned systems has created new requirements for small internal combustion engines and electric motors, to the extent that currently there is far from agreement as to the most appropriate technical solution. A host of different approaches are being exploited, from Wankel rotary to reciprocating, from battery electric to fuel cell and all manner of hybrids. Each of UST’s powerplant dossiers explores in depth one of the diverse innovative power units at the forefront of today’s unmanned revolution.
Focus articles

Revisited just once every 3 years the focus acts as an excellent source of reference on specific products and types of engineering service – topics covered include:

- 5G Radio • Additive Layer Manufacturing • Advanced Materials
- Ancillary Engine Systems • Antenna • Artificial Intelligence (AI)
- Autopilots • Batteries • Cable Harnesses • Composites • Connectors
- Data Storage • Design Software • Electric Motors • Embedded Computing
- Engine Control Units • Fuel Cells • Gimbals • Ground Control Systems
- Image sensing / cameras • IMUs, Gyros & Accelerometers
- Launch Systems • LiDaR • Machine Learning • Maintenance
- Motion Control • Motor Controllers • Navigation System • Parachutes
- Performance Monitoring • Personal Information Systems
- Power Management Systems • Propellers • Radio Links & Telemetry
- Real Time Operating Systems • Sense & Avoid / Radar • Servo Actuators
- Simulation & Testing • Solar Power • Sonar & Acoustic Systems
- Thermal sensors • Transponders • Wireless charging

Blazing a trail

W

Quiet confidence

Ian Bamsey
Editorial Director

Ian Bamsey is a world renowned technology writer and editor. Over the past 25 years he has created publications covering the technology of racecars and race engines and more recently he was one of the founders of Unmanned Systems Technology magazine.

Bamsey is now concentrating his attention on the equally complex and innovative world of unmanned systems technology. The same challenges of engineering efficiency are present here together with a lot more freedom for experimentation with alternative solutions.

Nick Flaherty
Technology Editor

Nick Flaherty is one of the world’s leading electronics technology journalists. He has been covering the latest developments in semiconductor, embedded software and electronics technology for the last 25 years as a writer, editor, analyst and consultant.

His expertise is now applied to the unmanned systems market, where the technology is moving fast. He brings detailed technical knowledge, analysis and experience of hardware and software system development to deliver a unique insight into the challenges of this exciting, cutting edge market.

Peter Donaldson
Technology Contributor

Peter Donaldson has been covering the technology of unmanned vehicle systems in particular and aerospace and defence in general since the mid-1980s. He cut his teeth on a range of titles covering civil and military helicopters, regional airliners, UAVs, space technology, military sensors and communications and advanced materials and has been a freelance writer and editor since 2010. Peter has been nominated for the Bill Gunston Technology Writer of the Year Award three times.

Rory Jackson
Technology Reporter

Rory Jackson is a technology analyst and writer. Over the past five years he has investigated trends and advances in aerospace, machine and digital systems, with particular regard to the opportunities and threats of emerging technologies to defence, security, and heavy industries. His current focus is on unmanned systems, involving regular international travel to explore the latest techniques, ideas and patents from the world’s most prolific technology hubs.
**Sonars and Acoustics**

**INSIGHT:** are enhancing the capabilities of UVs.

Investigate these advancements and how they in subsea acoustic technologies. We will sense-and-avoid, all gain from advancements as underwater comms, positioning systems, and Imaging sonars for survey and mapping, as well operations would be a dire understatement.

**PRODUCT FOCUS:**

From vehicles on the ground and in the air.

**TECHNOLOGY FOCUS:**

LiDaR – sense & avoid

LiDaR laser technology is moving quickly with new approaches to deliver high volume sensors for autonomous systems. We will research the latest developments in LiDaR sensors for sense and avoid applications in both ground and air vehicles, and how these sensors can be integrated into a wider sensor fusion architecture.

**PRODUCT FOCUS:**

Thermal Sensors

As UAV operators seek out specialised payloads to suit their individual missions, the thermal camera market has grown significantly. Long-wave, medium-wave, and short-wave infrared camera cores are all now available from different suppliers, with different approaches to processing, cooling, packaging, and other key considerations which we will investigate in this feature.

**INSIGHT:**

Construction

**Insight:** Unmanned Underwater Vehicles

Ed deadline: 22nd November 2019
Ad deadline: 4th December 2019
Publication dates: 6th January 2020
Bonus distribution:
Ces, Las Vegas
Tus Expo, The Netherlands
Singapore Airshow, Changi
Umx, Abu Dhabi

**Insight:** Unmanned Ground Vehicles

Ed deadline: 24th January 2020
Ad deadline: 5th February 2020
Publication dates: 24th February 2020
Bonus distribution:
Oceanology International, London
Japan Drone, Chiba

**Insight:** Unmanned Surface Vehicles

Ed deadline: 13th March 2020
Ad deadline: 25th March 2020
Publication dates: 13th April 2020
Bonus distribution:
Auvsi Xponential, Boston, USA
Drone Berlin
Euroatory, Paris
Unmanned Maritime Systems Tech, London
Unmanned Systems, Australia

**Insight:** Unmanned Aerial Vehicles

Ed deadline: 8th May 2020
Ad deadline: 20th May 2020
Publication dates: 8th June 2020
Bonus distribution:
Farnborough Air Show, UK
Auvsi Unmanned Systems Defense, USA
Uas Summit & Expo, Grand Forks, USA

**TECHNOLOGY FOCUS:**

Power Management

Power management is an essential part of an autonomous system. We’ll look at the latest developments in the technology for power management, from battery controllers to system-wide power optimisation. The focus will consider how power data is managed across an autonomous system and up into the cloud from vehicles on the ground and in the air.

**PRODUCT FOCUS:**

Sonars and Acoustics

To call sonar ‘vital’ to unmanned marine operations would be a dire understatement. Imaging sonars for survey and mapping, as well as underwater comms, positioning systems, and sense-and-avoid, all gain from advancements in subsea acoustic technologies. We will investigate these advancements and how they are enhancing the capabilities of UVs.

**INSIGHT:**

Construction

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**TECHNOLOGY FOCUS:**

Personal Information Systems

The move to self-driving, autonomous systems is opening up new design opportunities for personal information systems. We’ll review how autonomous vehicle networks can integrate the demands of higher data rates and lower latencies for such information systems.

**PRODUCT FOCUS:**

Ancillary Engine Systems

Engineers must carefully choose among ancillary engine systems such as fuel tanks, fuel pumps, sensors, exhaust pipes, mufflers, spark plugs, injectors, and starter-generators. With rising demands for reduced maintenance and fuel costs, we will see how key components are advancing to meet the challenges required of today’s unmanned vehicle engines.

**TECHNOLOGY FOCUS:**

Artificial Intelligence (AI)

Artificial intelligence and machine learning are delivering tremendous advantages in the development of control systems for autonomous vehicles. We will consider the range of AI technologies being used for both driverless cars and Uav, from predictive Kalman algorithms to the latest CNN and DNN convolutional neural network technologies.

**PRODUCT FOCUS:**

Cable Harnesses

Cable harnesses are vital for carrying communications and power supplies between the different subsystems of unmanned vehicles. New advancements are reducing the weight and space they take up, increasing their flexibility for routing throughout complex internal spaces, and maintaining protection of their wires and circuits.

**TECHNOLOGY FOCUS:**

Radio & Telemetry

Telemetry is a key function in autonomous systems. We will review the latest radio technologies being used for telemetry to get the longest range with the lowest power, from sub-GHz bands to millimetre wave. Also looking at the protocols used, from proprietary implementations up to 5G.

**PRODUCT FOCUS:**

Servo Actuators

Servo motors are critical for the actuation of flight surfaces to provide pitch, roll and yaw, and the control of engine throttles to alter the speed of fuel-powered systems. A range of other systems depend on them also, such as gimbals, which use multiple servos with complex protocols and algorithms. New technologies are enabling improved precision and strength for these vital components.

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TECHNOLOGY FOCUS: Operating Systems
A wide range of autonomous platforms are using mainstream operating systems on high performance hardware for their control systems. We will consider the emerging use of such operating systems alongside the development of the Robot Operating System (ROS) as well as the latest developments in real time operating systems to provide deterministic control.

PRODUCT FOCUS: Solar Power
As more unmanned vehicle operators seek to increase the endurances of their platforms, new thin-film solar technologies are making the integration of PV cells increasingly profitable. They are also allowing a new level of customisability to meet exact requirements in terms of operating altitude, power density, and manufacturing ease.

INSIGHT: Unmanned Space Vehicles

PRODUCT FOCUS: Motor Controllers
We will investigate the latest advances in the control algorithms and the supporting hardware empowering motor controllers to give a performance edge to the next generations of unmanned vehicles, whether they use electric motors for propulsion, flight actuation, or payload control systems.

INSIGHT: Autonomous Transport

UST 2019/2020 Publishing schedule overview

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<td>Insight: Autonomous Transport</td>
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Unmanned Systems Technology magazine is read by engineers around the world actively working on developing technological solutions for unmanned vehicles and the systems that support them. **Written by engineers, for engineers.**

**Circulation**

Core circulation – individually mailed copies 6,000

Readership (average 3 readers per copy) 18,000

- Chief / Head / Lead / Principal Engineer (UAV, UGV, USV, UUV)
- Aerospace Engineer • Airworthiness Engineer
- Autonomous Systems Engineer • Chief Scientist
- Development Engineer • Director of Design
- Electronic Design Engineer • Embedded Software Engineer
- Hardware Engineer • Head of Innovation • Lead Robotics Engineer
- Materials Manager • Mechatronics Engineer • Mechanical Engineer
- Program Manager • Project Engineer • R&D Engineer • Robotics
- Researcher • Research Scientist • Senior UAV Technician
- Software Developer • System Integration Engineer
- Technology Researcher • UAS Logistics Analyst
- UAV / UAS Operator • UAV / UAS Pilot • UV Specialist

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- USA 48%
- UK 17%
- Rest of Europe 19%
- Rest of World 16%

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[www.ust-media.com](http://www.ust-media.com)
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**Examples of full page ads**

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www.ust-media.com
We’ve been working with UST since day one and have been delighted with the interest and feedback our advertisements have generated. UST is fresh, creative, and stands out from all others with its detailed technical reports that truly celebrate the innovation that’s driving this fascinating and fast growing industry.

**Phillipp Volz, CEO, Volz Servos**

UST covers the unmanned industry from the perspective no other magazine does – from an engineering point of view. Articles dig deep to explore the technical aspects of unmanned vehicles, from the technology used to the manufacturing methods involved. This approach is of great interest for anyone who is involved in designing unmanned systems.

**Rory Bauer, Sales Director, UAV Factory**

As a SUAS manufacturer, UST provides us with valuable information, technology and products from across the world that we would otherwise not know about. The detailed technical articles, images and well written copy bring all that information together in one source. It’s a top notch magazine that we place above all others in our office.

**Duran De Villiers, CEO, Alti UAS**

UST magazine is one of the few publications that still takes the time to do thoughtful, in-depth pieces with leading experts in the unmanned industry. It provides insight into the companies that are driving technology forward and helps me to know who’s leading the pack.

**Andrew Hayes, Director of EagleWorX, Insitu**

Fact not fiction. Science not speculation.