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  •  Gimbal Systems  •  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

While many unmanned vehicle platforms are intended to take on multiple roles, starting with a particular job in mind is a good way of partaking in the manufacture 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 experience 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.

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.

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 defense, 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.
W 46
Rory Jackson
space systems to stake their claims in Earth’s
Planet gear
The Kounotori 8 mission was the latest to use the Japanese space
of years.
Mars will host a range of new orbital and
forward with plans for consolidating
organisations around the world surging
operations (Courtesy of Reference Technologies)
The Hummingbird XRP with its  inventor Allen Bishop in
46
reports on the work by some developers
will provide critical benefits such as
suit their specialist requirements, UAV
5.3 t of provisions.
supply onboard astronauts with about
has sent an unmanned spacecraft to
Kibo Japanese Experiment Module as
September 24 from the Japan
out experiments, and six lithium-ion orbital
as SpaceX’s Dragon and Northrop
vessel in existence so far, among others
to trial a humanoid FEDOR robot in the unmanned
Russia’s Ministry of Emergency Situations.
with non-profit organisation Android
FEDOR (Final Experimental
onboard crew.
and flown autonomously with a payload
Baikonur Cosmodrome in Kazakhstan
the ISS, having been launched from the
Soyuz MS-14 spacecraft returned from
732 Wh to 1.11 kWh."

The power converter responsible
for making the solar power useable
onboard systems – the Multi Power
EE is to be used at, and in need of high
much more reliable, which is critical for
comms range but it makes the data link
omnidirectional antenna (compared
new comms system called the SF
the Silent Falcon EE’s GCS uses a
operates in his spare time. After obtaining
batteries for FPV racer drones that he
director of flight operations, who has
designed and built in-house to provide
onboard systems – the Multi Power

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.

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.

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.

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.

Critical intelligence for land, sea and aerospace engineers
UNMANNED systems TECHNOLOGY MAGAZINE

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Forward features

**UST 2020 Publishing schedule overview**

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<td>5th February</td>
<td>24th February</td>
<td><strong>Tech Focus:</strong> LiDaR – sense &amp; avoid</td>
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<td><strong>Product Focus:</strong> Thermal Sensors</td>
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<td><strong>Tech Focus:</strong> Personal Information Systems</td>
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<td><strong>Product Focus:</strong> Ancillary Engine Systems</td>
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<td><strong>Product Focus:</strong> Cable Harnesses</td>
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<td><strong>Insight:</strong> Unmanned Surface Vehicles</td>
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<td><strong>Product Focus:</strong> Servo Actuators</td>
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<td><strong>Insight:</strong> Unmanned Aerial Vehicles</td>
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<td><strong>Product Focus:</strong> Solar Power</td>
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<td><strong>Insight:</strong> Unmanned Space Vehicles</td>
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</tbody>
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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
- **Ed deadline:** 25th September 2020
- **Ad deadline:** 7th October 2020
- **Publication dates:** 26th October 2020
- **Bonus distribution:** Bahrain Airshow, Bahrain
Commercial UAV Show, London
Commercial UAV Expo, Amsterdam
Advanced Engineering, UK
Commercial UAV Expo. Americas

**UST 34**
October/November 2020

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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.

**Readership**

- 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

**Where in the world**

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

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<table>
<thead>
<tr>
<th>Size/Insertions</th>
<th>1x</th>
<th>3x</th>
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<tbody>
<tr>
<td><strong>Double page</strong></td>
<td>$13800</td>
<td>$12420</td>
<td>$11730</td>
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<tr>
<td><strong>Full page</strong></td>
<td>$8050</td>
<td>$7250</td>
<td>$6850</td>
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<tr>
<td><strong>Half page</strong></td>
<td>$4370</td>
<td>$3930</td>
<td>$3710</td>
</tr>
<tr>
<td><strong>Quarter page</strong></td>
<td>$2300</td>
<td>$2070</td>
<td>$1960</td>
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</table>

Cover positions +20%, Guaranteed position +10%

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Artwork can be supplied in PDF, EPS, TIFF or JPEG formats. Artwork to be set at 300dpi.

Alternatively we do offer a design service by arrangement, so if you would like us to help make an advertisement for you, or amend an existing ad, then please get in touch to discuss.

#### Double page spread
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- **Bleed:** W426mm x H303mm
- **Type:** W400mm x H277mm

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- **Trim:** W210mm x H297mm
- **Bleed:** W216mm x H303mm
- **Type:** W190mm x H277mm

#### Half page (V)
- **Type area:** W92.5mm x H277mm

#### Half page (H)
- **Type area:** W190mm x H136mm

#### Quarter page
- **Type area:** W92.5mm x H136mm

### Examples of full page ads

![Full page ad example 1](image1)

![Full page ad example 2](image2)

### Examples of half pages

![Half page ad example 1](image3)

![Half page ad example 2](image4)

### Examples of quarter pages

![Quarter page ad example 1](image5)

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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.

Philipp 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.