

# PHILLWESTON'S INTRODUCTION



A geek in the Unmanned Aircraft System field.  
A leader with a dream.

<https://docs.phillweston.com>

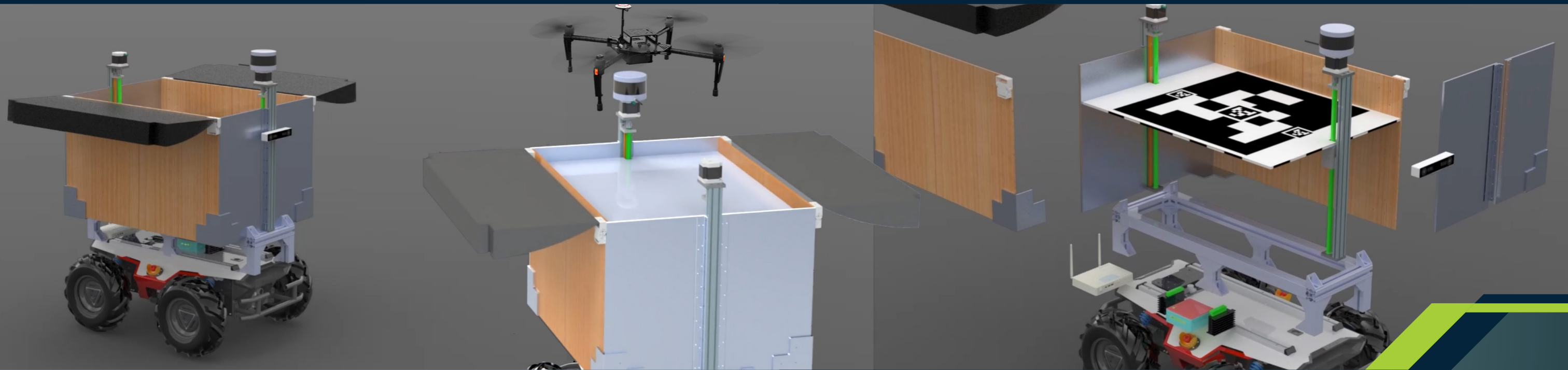


# WELCOME

Innovating the Skies with Cutting-Edge Drone Technology  
Elevating Possibilities: Explore the World of Autonomous Drones

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Explore the following pages for easy access to a wealth of information, neatly organized into categories for your convenience.



We are witnessing a new dawn in the realm of electronic engineering and drone technology, a journey that's as ambitious as it is transformative. From the esteemed classrooms of XiDian University to the pioneering frontiers of cutting-edge research labs, this path has been paved with relentless innovation, academic rigor, and a bold vision for the future.

Leading the charge, key developments in unmanned aerial vehicles and advanced control systems have redrawn what's possible. In intricate fields like machine vision and artificial intelligence, deep explorations navigate complex algorithms and groundbreaking software development.

This journey, fueled by a perfect amalgamation of robust theoretical knowledge and practical prowess, has been instrumental in unraveling some of the most complex challenges in electronic engineering. Turning once-elusive dreams into tangible, groundbreaking realities, it represents a bridge between the realms of theoretical understanding and real-world application.

As this journey progresses, it transcends personal development, marking a substantial leap in drone functionalities and control dynamics. This evolution is not only shaping the trajectory of future technological advancements but is also opening new avenues for transformative applications in various fields.

This narrative reflects a transformative journey in technology, marking the seamless integration of academic and professional achievements. It highlights a relentless pursuit of knowledge and the impactful role of technology in our world, a testament to innovation and dedication.

Summing up this journey of learning and drone tech advancement: I am Phillweston.

PHILL WESTON  
Director

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# MY PROFILE

Embark on the story of Phillweston, a fusion of innovative spirit and technical mastery in drone and electronic engineering.



**M** Meet Phillweston, an graduate student from Xi'an University of Electronic Science and Technology, majoring in Electronic Engineering.

My academic curriculum includes Digital Electronics, Analog Electronics, Signal and Systems, Principles of

Microcomputer, Automatic Control Principles, and Numerical Calculation Methods. I played a pivotal role in managing and conducting technical research in the Xi'an Electronic Association of Aeronautics and participated in laboratory projects focused on UAV flight control and control algorithms. During my undergraduate years, as a

technical leader, I spearheaded our student teams in robotics control algorithm competitions. My guidance and strategies were instrumental in leading the teams to achieve numerous national and provincial awards, showcasing our collective skills and innovative approaches.

## MY MISSION

To be a trailblazer in seamlessly integrating AI with drone technology, propelling forward-thinking innovation and establishing new standards of excellence within the electronic engineering landscape.

## MY VISION

- 1 Lead AI integration in drone technology, revolutionizing applications in various sectors.
- 2 Foster an ecosystem of continual learning and development, staying ahead of tech advancements.
- 3 Build collaborative partnerships to leverage expertise and boost progress in electronic engineering.
- 4 Focus on sustainable, ethical tech development, shaping a responsible future for the industry.

# MY PAST EXPERIENCES

Trace my career milestones: marked by innovative projects and academic feats in drone tech and electronic engineering.



## XIDIAN UNIVERSITY

XiDian University, renowned for its focus on electronic and information engineering, is a prestigious institution in China. Known for its rigorous academic environment and cutting-edge research, it's a hub of innovation and technological advancement, shaping future leaders in engineering and technology.



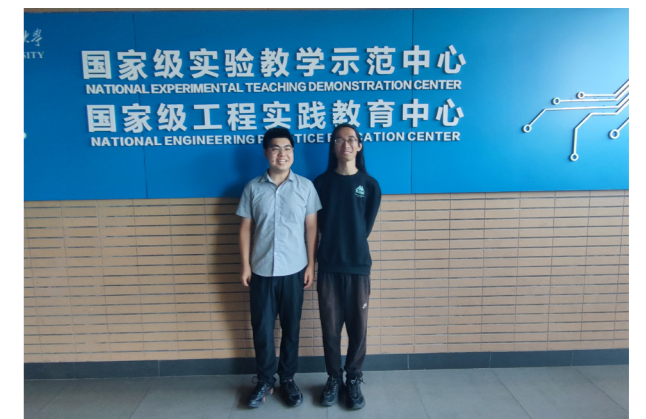
## XDU ROBOMASTER TEAM

The XDU RoboMaster Team is a dynamic group of tech enthusiasts specializing in robotics. They combine creativity, engineering skills, and teamwork to excel in RoboMaster competitions, showcasing innovative robot designs and strategic prowess. This team is a testament to the university's commitment to practical, hands-on learning in robotics and engineering.



## XDU AERO ASSOCIATION

The XDU Aero Association, a student-led club at XiDian University, is a vibrant community passionate about aeronautics and aviation. Members engage in diverse activities, from building model aircraft to studying aerospace technology, fostering a hands-on learning environment that complements their academic pursuits in aeronautics and related fields.

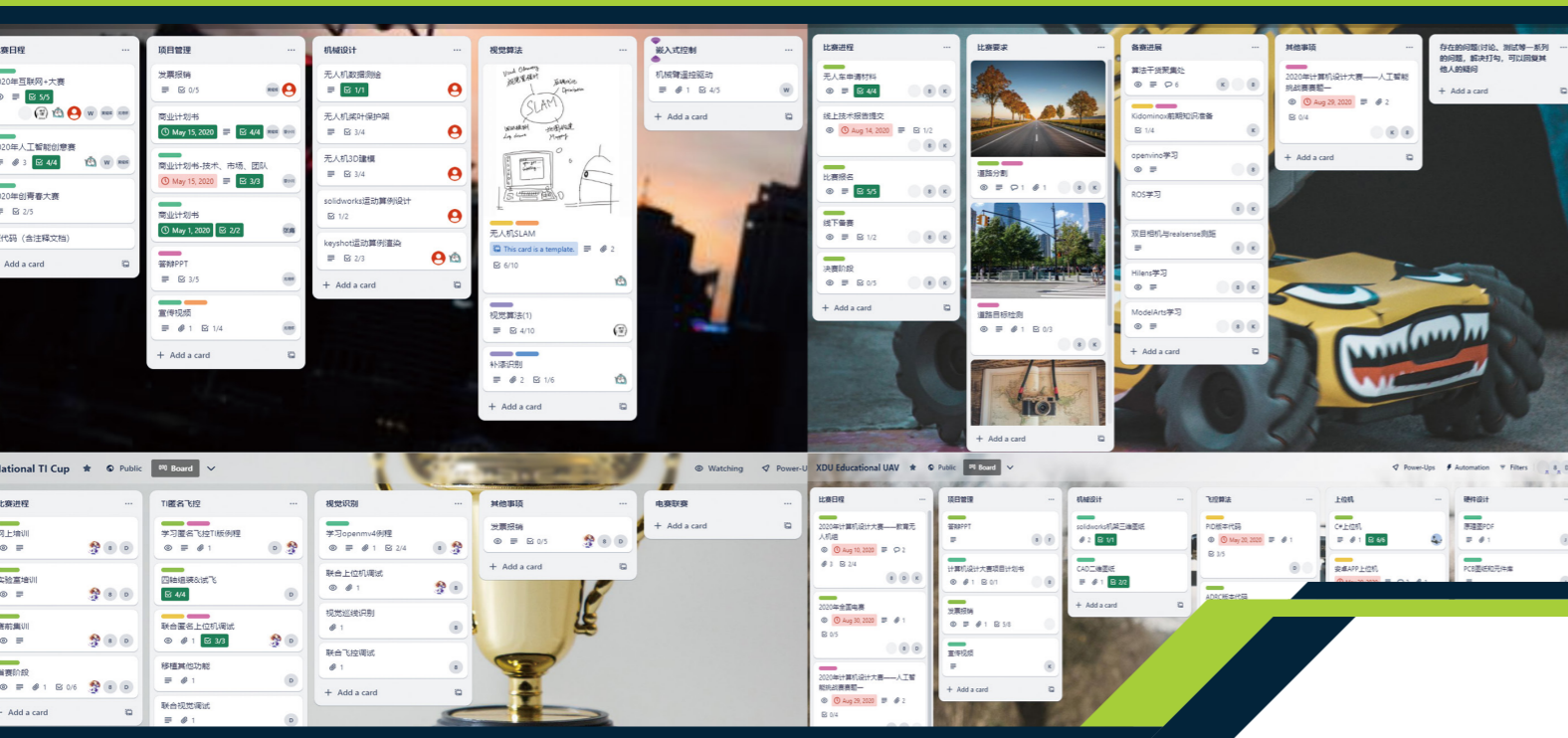


## XDU ELECTRONIC LAB

The XDU Electronic and Electrical Lab at XiDian University is a state-of-the-art facility dedicated to practical learning and innovation in electronics and electrical engineering. Here, students engage in hands-on experiments and projects, gaining invaluable experience in the latest technologies and research under the guidance of expert faculty, preparing them for advanced careers in the field.

# OUR STRATEGY

Our strategy fuses AI innovation with advanced drone engineering, charting a path for breakthroughs in intelligent technology.



## WHAT WE ARE DOING

We offer bespoke solutions in AI and drone technology, tailored to meet the unique needs of each client. Our commitment to excellence is reflected in our comprehensive support, from initial concept development to post-deployment assistance, ensuring unparalleled

service quality. Our products represent the cutting edge of AI and drone technology. Each product is crafted with precision and innovation, embodying the latest advancements in electronic engineering. Designed for reliability and efficiency, our range includes user-friendly drones, advanced AI software,

and integrated control systems. Recognized for our integrity and reliability, we have established a reputation as a trusted leader in the AI and drone technology sector. Our delivery of quality products, ethical practices, and focus on customer satisfaction have earned diverse client trust and loyalty.



**SERVICE**



**PRODUCTS**



**TRUSTED**

# FOCUSED STRATEGY

Our strategy divides into Analysis, Marketing, and Development, driving growth and leadership in UAV technology.

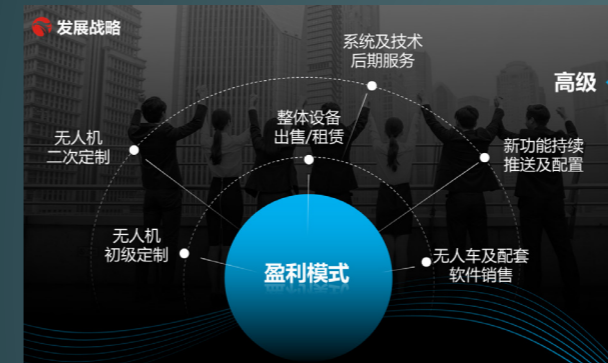
## 1 ANALYSIS STRATEGY

Our strategy involves comprehensive analysis across projects, addressing the growing need for intelligent security in various scenarios. We focus on overcoming traditional security limitations with our innovative UAV and UGV integration, leveraging high-resolution imaging and advanced formation systems for efficient security solutions



## 2 MARKETING STRATEGY

Our marketing approach targets the expansive security market, leveraging our cutting-edge products customized for diverse scenarios. We emphasize our competitive edge in autonomy, customization, and cost-effectiveness, backed by national patents and strong academic foundations. Collaborations with industry leaders enhance our market standing.



## 3 DEVELOP STRATEGY

Our development strategy centers on tech innovation, service improvement, and business growth. We're aiming for aerial-terrestrial system integration with cloud and IoT by 2025. Our revenue hinges on selling unmanned systems, custom solutions, and providing extensive support, with targeted funding for sustained growth and market impact.



## HOW WE ARE ORGANISED

Our organization innovatively integrates UAVs and UGVs for advanced security solutions, setting new standards in the field of intelligent surveillance and protection. Utilizing high-resolution imaging and autonomous navigation systems, we provide efficient and customized se-

curity services, adapting our solutions to a wide range of environments from urban centers to remote locations.

Guided by industry experts, we focus on technological advancement and establishing a strong market presence, always staying ahead of industry trends. Our strategy includes

business growth, with funding aimed at product development and team expansion, positioning us as leaders in integrated security solutions and pioneers in applying emerging technologies for real-world applications.

# OUR TEAM

Meet our team: a dynamic group of experts united by a passion for pushing the boundaries of AI and drone technology.



## DECISION-MAKING TEAM

Strategic Visionaries

This team is led by a notable undergraduate from the School of Electronic Engineering, celebrated for steering various innovative contests such as the "Internet+" and the Beidou Cup to success, demonstrating remarkable strategy and planning skills. The team also includes a Computer Science department whiz, proficient in Python and MATLAB, focusing on advanced target detection and reinforcement learning, whose contributions have been vital in the realm of unmanned vehicle competitions.



## MARKETING TEAM

Brand Catalysts

The Marketing Team is energized by a member with outstanding public relations and leadership skills, who brings innovative and effective marketing strategies to the table. Alongside is a digital-savvy team member from Microelectronics, skilled in content creation and digital marketing. Their expertise with modern digital tools and platforms plays a crucial role in enhancing our brand's presence and engagement with the target audience.



## TECHNOLOGY TEAM

Tech Innovators

Our Technology Team includes a specialist in drone technology, particularly in landing platforms and flight control, with a track record of success in various innovation contests. A student from Microelectronics, known for exceptional practical drone technology skills, adds substantial value. The team is further enriched by a member from the School of Artificial Intelligence, focused on mechanical design and robotics, alongside another member whose expertise in programming, computer vision, and system development crucially advances our project development.

# OUR PROJECTS

Explore our successful projects: showcases of our expertise where innovative AI and drone technologies come to life.



## UAV LINE INSPECTION SYSTEM

In the lineage of aerial innovation, from the Wright brothers to DJI, our company now introduces a paradigm shift in industrial drones with the Qian Tian Yu Claw. This system, rooted in deep learning, revolutionizes high-altitude electrical inspections with unmatched safety and efficiency. Surpassing traditional methods and current drones in speed, endurance, and operational ease, our integrated approach uses diverse drone models and an autonomous resupply network. Enhanced with sophisticated visual navigation and precise machine learning, our dual-rotor tiltrotor UAV stands as a testament to our commitment to leading the industry in drone innovation and functionality.



## AERIAL SURVEILLANCE SYSTEM

Our project, led by Lu Ruitao, heralds a new era in integrated air and ground security, blending drones and unmanned vehicles into a cutting-edge intelligent network. Surpassing traditional security systems, it uses panoramic imaging and real-time data fusion for superior surveillance. Our sophisticated formations and navigation systems guarantee precise, adaptable operations. This innovative approach marks a significant advancement in autonomous, multidimensional monitoring, and is enhanced by our collaboration with leading technology partners, setting a new benchmark in the industry for intelligent security solutions.



## AERIAL PAINT DRONE

Our team at WeiYuan Yi introduces an innovative Wind Power Facility Inspection and Repainting Drone, transforming turbine maintenance with 5G-enabled real-time imaging for accurate repairs. This drone enhances safety and efficiency in challenging environments, with intelligent image processing and precision repair mechanisms. Automating maintenance tasks, it not only improves operational stability but also contributes to the sustainability of wind power infrastructure. Our approach, blending technology with market needs, marks a major advancement in renewable energy, placing us at the forefront of intelligent, sustainable maintenance solutions.

# OUR MILESTONES

Traverse our milestones: a chronicle of pivotal achievements that have shaped our journey in AI and drone technology innovation.

## 无人机协同补给巡检行业 领军者

Our advancements in drone tech, 5G, and cloud integration will position us as leaders in UAV and IoT solutions.

PHILLWESTON  
TEAM LEADER

### 1 UAV FORMATION

We're planning sophisticated formations of over six UAVs and dynamic mobile platform operations to enhance drone efficiency and precision, effectively redefining the limits of coordinated aerial maneuvers.

At Smart Hawk Technology, our UAV collaborative operation system, with its intelligent UAV clusters and mobile platform, addresses key drone operation challenges. Integrated with Huawei Cloud's AI security, it enhances drone efficiency and adaptability.

Our system includes smart UAV control for automated responses to power or environmental changes and real-time mission adaptability. This

### 2 5G INTEGRATION

Our goal is to integrate 5G with Huawei Cloud for faster data transmission, improving our drone systems for real-time operations and significantly boosting decision-making capabilities.

tech-forward approach optimizes UAV performance in various scenarios.

Innovatively, we hold six core patents for UAV search, target detection, and formation restructuring methods, establishing us as a leader in the UAV market and driving forward with cutting-edge, industry-shaping solutions.

### 3 IOT SYNC

In collaboration with Huawei Cloud Computing Center, we're industrializing an air-ground cloud network with IoT for smarter, connected drones and setting new technology integration standards.

# OUR CLIENTS SAID

See what clients say: firsthand testimonials on our impactful, innovative AI and drone tech solutions.



### LI WEI

Head of Operations - Datang International Lüsigan Power Generation Co., Ltd.

The monitoring technology provided for our trial exceeded all expectations in efficiency and reliability. Its application in our operations significantly enhanced our overall performance, setting a new benchmark for power generation technology. The precision and dependability of this technology have proven to be crucial in optimizing our power generation processes.



### ZHANG HUA

Marketing Director - Shaanxi Liansheng Export Co., Ltd.

Their innovative solutions at our exhibitions and press conferences brought a new level of engagement and visibility to our products. The partnership was instrumental in showcasing the potential and adaptability of their advanced technologies. It created a tangible buzz and excitement around our offerings, capturing the interest of a wider audience.



### WANG YU

Joint Research Coordinator - Xidian University - DJI Joint Innovation Base

Our collaboration has been a groundbreaking venture, merging DJI's industry expertise with Xidian University's research prowess. This partnership is paving the way for significant advancements in drone technology and applications. The fusion of academic research with practical industry insights has catalyzed a series of innovative developments.



### CHEN MING

Director - Xidian University ALTERA EDA/SOPC Joint Innovation Lab

The joint lab with Altera Corporation has immensely boosted our research and educational prowess. This collaboration is a testament to our commitment to pioneering in electronic design and automation, benefiting students and researchers alike. It's a perfect blend of industry and academia, leading to groundbreaking innovations in electronic design.



# GET IN TOUCH

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