



# GRIPS

## ROBOTICS INC.



**COMPANY**  
**PROFILE**



“

**Innovation is the key to unlocking new possibilities. Embrace the power of automation and redefine what's**

”

**Certified By**



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# ABOUT US

Grips Robotics INC is a pioneering automation service provider based in Nigeria. Established in 2022, our company specializes in utilizing unmanned aerial vehicles (UAVs), unmanned ground vehicles (UGVs), and unmanned water vehicles (UWVs) to revolutionize asset inspections, area surveys, and item delivery. We are driven by a passion for innovation and a commitment to providing safe, efficient, and cost-effective solutions to our clients.

With our headquarters located in Lagos, Nigeria, Grips Robotics is strategically positioned to serve clients across various industries within the country. We leverage the latest advancements in drone technology and software solutions to deliver game-changing data acquisition, transforming traditional methods of inspection and survey.

At Grips Robotics, we pride ourselves on our ability to tackle complex challenges that were previously time-consuming, expensive, and hazardous. By combining cutting-edge technology with our expertise, we offer a wide range of services that cater to diverse sectors, including oil and gas, telecommunications, infrastructure, power transmission, real estate, agriculture, and more.

Our dedicated team of professionals is at the forefront of the industry, constantly pushing boundaries to provide tailored solutions that meet the unique requirements of each project. We strive for excellence in all aspects of our operations, ensuring that our clients receive top-notch service, accurate data, and actionable insights that drive informed decision-making.

Through our commitment to innovation, safety, and efficiency, Grips Robotics is reshaping the future of asset inspections, area surveys, and beyond. Grips Robotics is Licensed to Operate by **NCAA** (Nigeria Civil Aviation Authority) and cleared by **ONSA** (Office of the National Security Adviser).

# CORPORATE STATEMENTS

## Vision Statement

To be the leading provider of unmanned vehicle solutions, revolutionizing asset inspections and area surveys through cutting-edge technology, exceptional service, and unmatched value.

## Mission Statement

Our mission is to empower industries with safe, fast, and cost-effective solutions for asset inspections and area surveys by harnessing the power of unmanned aerial, ground, and water vehicles. We aim to deliver accurate and actionable data to our clients, enabling them to make informed decisions, optimize operations, and enhance safety.

## Core Values

### Innovation

We embrace innovation, pushing boundaries in automation and inspection.

### Safety

Safety is our top priority, ensuring well-being for all.

### Excellence

We strive for excellence in every project we undertake.

### Collaboration

We foster partnerships for open communication and shared success.

### Integrity

We uphold honesty, transparency, and accountability.

# UAV, UGV, AND UWV

## WHAT THEY MEAN & HOW THEY WORK

At Grips Robotics, we leverage the power of unmanned aerial vehicles (UAVs), unmanned ground vehicles (UGVs), and unmanned water vehicles (UWVs) to transform asset inspections, area surveys, and item delivery. Here's a brief overview of each technology and how they work:

### Unmanned Aerial Vehicles (UAVs)

UAVs, also known as drones, are remotely operated aerial vehicles equipped with high-resolution cameras, sensors, and other advanced technology. These unmanned aircraft allow us to capture detailed aerial imagery, conduct inspections, and gather valuable data with precision and efficiency. By utilizing UAVs, we eliminate the need for traditional, time-consuming, and often risky methods of asset inspections, such as rope access or scaffolding.

### Unmanned Ground Vehicles (UGVs)

UGVs are autonomous or remote-controlled vehicles designed to navigate and operate on the ground without the need for human presence. These versatile robotic systems are equipped with sensors, cameras, and other specialized equipment to perform a wide range of tasks. In the context of Grips Robotics, UGVs are utilized for ground-based inspections, surveys, and item delivery, enabling us to access areas that may be challenging or unsafe for human personnel.

### Unmanned Water Vehicles (UWVs)

UWVs, also known as unmanned surface vehicles (USVs) or unmanned underwater vehicles (UUVs), are autonomous or remotely operated vehicles specifically designed for water-based operations. Equipped with sonar systems, cameras, and other marine sensors, UWVs allow us to perform inspections and surveys in maritime environments, such as offshore structures, ports, and other water-related assets. These vehicles enhance efficiency, accuracy, and safety in assessing underwater infrastructure.

The integration of UAVs, UGVs, and UWVs into our operations enables Grips Robotics to provide comprehensive, multi-dimensional data acquisition and analysis. Our team of skilled professionals utilizes specialized software and data processing techniques to transform raw data collected by these unmanned vehicles into actionable insights and reports. This empowers our clients to make informed decisions, identify maintenance needs, detect anomalies, and optimize their operations.

# OUR SERVICES

At Grips Robotics, we offer a comprehensive range of services that leverage the capabilities of unmanned aerial, ground, and water vehicles. Our services are designed to provide safe, efficient, and cost-effective solutions for asset inspections, area surveys, and more. Here are the key services we provide:

## Assets Inspections

We specialize in conducting inspections of various assets across industries. Our skilled team utilizes UAVs, UGVs, and UWVs to perform inspections in areas that are challenging to access using traditional methods. Our asset inspection services include:

### Oil & Gas Platforms

We conduct thorough inspections of oil and gas platforms, ensuring the integrity and safety of the structures. Our UAVs capture detailed imagery and perform visual inspections, identifying potential issues such as corrosion, leaks, or structural damage.

### Cell Tower Inspections

Using UAVs, we perform inspections of cell towers to assess their condition, identify maintenance needs, and ensure optimal performance. Our high-resolution imagery and close-up inspections enable us to detect issues such as equipment malfunctions or structural defects.

### Bridge Inspections

We utilize UAVs to conduct bridge inspections, providing a detailed analysis of the bridge's structural integrity, including identifying cracks, deterioration, or any other potential safety hazards.

### Pipeline Inspections

Our team conducts inspections of pipelines to detect leaks, assess corrosion, and identify other integrity issues. By utilizing UAVs, we efficiently cover long stretches of pipelines, providing cost-effective and accurate data.

### Power Transmission Inspections

We use UAVs to inspect power transmission infrastructure, including transmission lines, towers, and substations. Our inspections help identify potential faults, vegetation encroachment, and other issues that may affect the reliability of the power grid.



## Assets Inspections

### Solar Plant Inspections

With UAVs, we perform inspections of solar power plants, capturing high-resolution imagery and thermal data to assess the performance of solar panels, identify hotspots, and optimize energy production.

### Maritime Assets

Using UWVs, we inspect maritime assets such as offshore platforms, ports, and vessels. Our underwater inspections provide valuable data on the condition of underwater infrastructure, ensuring safety and efficiency in maritime operations.

### Landfill Monitoring

We utilize UAVs to monitor landfills, capturing imagery and data to assess the volume of waste, monitor landfill stability, and identify potential environmental concerns.

### Real Estate Assets

Our UAV inspections enable detailed assessments of real estate assets, providing clients with comprehensive information on structural integrity, facade conditions, site construction monitoring, and maintenance requirements.

### Agriculture

Utilizing UAVs equipped with specialized sensors, we perform aerial surveys of agricultural lands. Our services include crop health analysis, yield estimation, and identification of irrigation or nutrient deficiencies.

## Drone Delivery

Our innovative drone delivery services revolutionize transportation. With our advanced fleet, we safely deliver items like medical specimens, vital medications, groceries, and fast food, transforming the way goods are transported.

### Medicine Delivery to Remote Areas

In hard-to-reach regions, our fast and reliable drone delivery transports essential medications. Our drones navigate challenging terrains, ensuring timely access to life-saving drugs for individuals in rural communities or disaster-stricken areas.

### Grocery Delivery

Partnering with local supermarkets, we offer efficient and contactless drone delivery of light groceries to your doorstep. From fresh produce to household items, our drones safely transport goods, reducing delivery times and offering an eco-friendly solution.

### Fast Food Delivery

Craving piping hot fast food? Our drone delivery service brings your favorite meals to your location. Working with local fast food restaurants, our specially designed drones ensure your order arrives fresh and hot, providing convenience without leaving home.



# Aerial Survey

Aerial view of a drone flying over a green field. The drone is positioned at the top right, and a large, semi-transparent 3D grid is projected onto the ground below it. The grid is composed of small squares, with some squares highlighted in different colors (green, yellow, purple) to represent elevation or terrain data. The background shows a landscape with green fields, trees, and mountains under a blue sky with light clouds.

Our Aerial survey services provide clients with accurate and detailed data about a particular area or site. By utilizing UAVs equipped with advanced imaging technology, we capture high-resolution imagery, 3D models, and digital elevation models. Our Aerial survey services include:

## Accurate and Full-Colour Orthomosaics

We generate orthomosaic maps that combine multiple images to create a high-resolution, georeferenced representation of the surveyed area. These maps provide clients with accurate and detailed visual information for analysis and planning.

## 3D Models and Digital Elevation Models

Using advanced photogrammetry techniques, we create 3D models and digital elevation models (DEMs) of surveyed areas. These models enable clients to visualize and analyze the topography, contours, and elevation variations of the site.

## Measurements

We provide precise measurements such as GPS coordinates, lengths, areas and volumes. Using the data collected during the area survey, we accurately measure distances, areas, and volumes of specific features or objects within the surveyed site. These measurements assist in various applications such as land development, infrastructure planning, and construction projects.

## Elevation Profiling

Our area survey services include detailed elevation profiling, which allows clients to understand the vertical variations and slopes within a surveyed area. This information is vital for infrastructure projects, drainage planning, and terrain analysis.

## High Accuracy (down to 2cm horizontally & 5 cm vertically)

We pride ourselves on delivering highly accurate survey data. With cutting-edge technology and precise data processing techniques, we achieve accuracy levels of up to 2cm horizontally and 5cm vertically. This level of accuracy ensures reliable data for engineering, construction, and land management purposes.

Our area survey services cater to a wide range of industries and sectors, including government agencies, real estate companies, infrastructure developers, and individual landowners. Whether it's for land assessment, site planning, or environmental analysis, our services provide clients with valuable insights and data to make informed decisions.

# OUR SERVICES

## Analysis Services

At Grips Robotics, we offer a range of analysis services to complement our data acquisition capabilities. Our team of skilled analysts utilizes cutting-edge software tools and algorithms to extract valuable insights from the collected data, providing you with actionable information to drive informed decision-making. Our analysis services include:

### Data Interpretation and Visualization

We understand that data alone is not enough; it needs to be transformed into meaningful information. Our analysts excel at interpreting complex datasets and translating them into clear visualizations, charts, and graphs. These visual representations make it easier for you to understand and analyze the data, enabling you to identify patterns, trends, and anomalies that may impact your operations.

### Anomaly Detection and Condition Assessment

Through advanced data analysis techniques, we identify anomalies or deviations from expected patterns within your assets or surveyed areas. By comparing current data with historical or baseline data, we can pinpoint potential issues such as structural weaknesses, equipment malfunctions, or environmental changes. This allows you to proactively address these concerns, minimizing the risk of failures or downtime.

### Predictive Analytics

Harnessing the power of predictive analytics, we can help you forecast future trends and outcomes based on historical data and relevant variables. By leveraging machine learning algorithms and statistical modeling, we can identify patterns, correlations, and predictive indicators that assist in proactive decision-making. This enables you to anticipate potential challenges, optimize resource allocation, and plan for the future with confidence.



# OUR SERVICES

## Analysis Services

### Performance Optimization

Our analysis services can uncover opportunities for performance optimization within your operations. By analyzing key performance metrics and comparing them to industry benchmarks or best practices, we identify areas for improvement. Whether it's enhancing efficiency, reducing costs, or maximizing productivity, our insights help you optimize your processes and achieve your operational goals.

### Risk Assessment and Mitigation

We conduct thorough risk assessments by analyzing the data collected during inspections, surveys, and monitoring activities. Our analysts evaluate various factors, such as asset conditions, environmental factors, and operational parameters, to assess potential risks and their potential impact on your operations. We then provide recommendations for risk mitigation strategies, enabling you to prioritize resources and implement preventive measures.

### Customized Reporting and Decision Support

Our analysis services culminate in customized reports tailored to your specific needs. We provide clear and concise reports that highlight the key findings, insights, and recommendations derived from the data analysis. These reports serve as valuable decision support tools, empowering you to make informed choices and take strategic actions based on reliable and accurate information.

## Project Management

At Grips Robotics, we understand that successful project execution requires effective project management. Our dedicated project management team works closely with you to ensure seamless coordination, timely delivery, and successful outcomes. Our project management services include:

### Collaboration between Project Stakeholders

We facilitate effective collaboration and communication among project stakeholders. Our project management team ensures that all relevant parties, including clients, contractors, and internal teams, are aligned on project objectives, timelines, and deliverables. By fostering open lines of communication and providing a centralized platform for information sharing, we promote teamwork, transparency, and efficient decision-making throughout the project lifecycle.

### Progress Monitoring

We closely monitor project progress to ensure that it stays on track and meets established milestones. Our project management team utilizes robust monitoring tools and methodologies to track key performance indicators, identify potential bottlenecks, and take proactive measures to keep the project on schedule. By providing regular progress reports, we keep you informed about the project's status and any necessary adjustments or contingencies.



## Project Management

### Site Planning

Effective site planning is essential for the smooth execution of any project. Our project management team works in collaboration with our technical experts to develop comprehensive site plans that optimize the utilization of resources, equipment, and personnel. We consider factors such as site layout, logistics, and safety requirements to create efficient and well-organized project environments. Our site planning expertise minimizes delays, enhances productivity, and ensures optimal project outcomes.

### Safety Planning

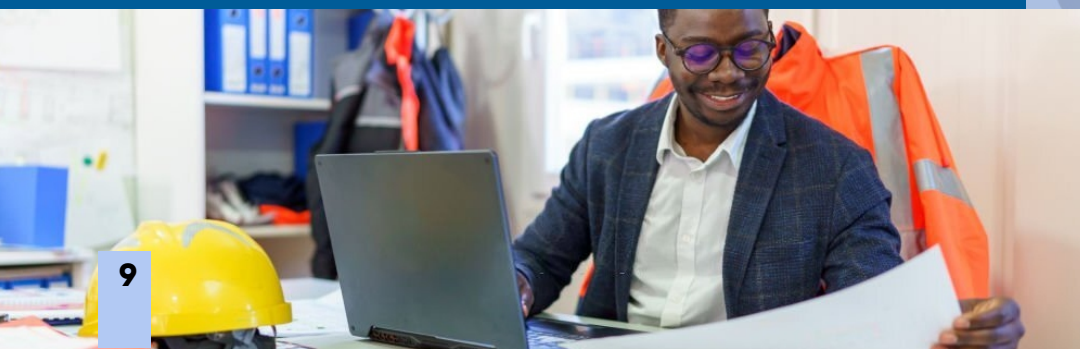
Safety is paramount in all our projects. Our project management team incorporates safety planning as an integral part of project execution. We conduct thorough risk assessments, identify potential hazards, and implement appropriate safety measures to mitigate risks. By adhering to stringent safety protocols, we create a secure working environment for all project stakeholders, ensuring that safety remains a top priority throughout the project lifecycle.

### Legal Documentation

Navigating the regulatory landscape and ensuring compliance with legal requirements is critical for project success. Our project management team assists you in handling the necessary legal documentation and permits associated with your project. We ensure that all required permits, licenses, and approvals are obtained in a timely manner, minimizing administrative burdens and ensuring regulatory compliance.

### Site Meetings

Effective communication and coordination are facilitated through regular site meetings. Our project management team organizes and facilitates these meetings, bringing together relevant stakeholders to discuss project progress, address any concerns or challenges, and make collective decisions. These meetings serve as a platform for exchanging information, resolving issues, and maintaining alignment among all project participants.



# SERVICE BENEFITS

Choosing Grips Robotics for your automation and inspection needs offers numerous benefits that set us apart from traditional methods. Here are some of the advantages of working with us:

## **Safety Enhancement**

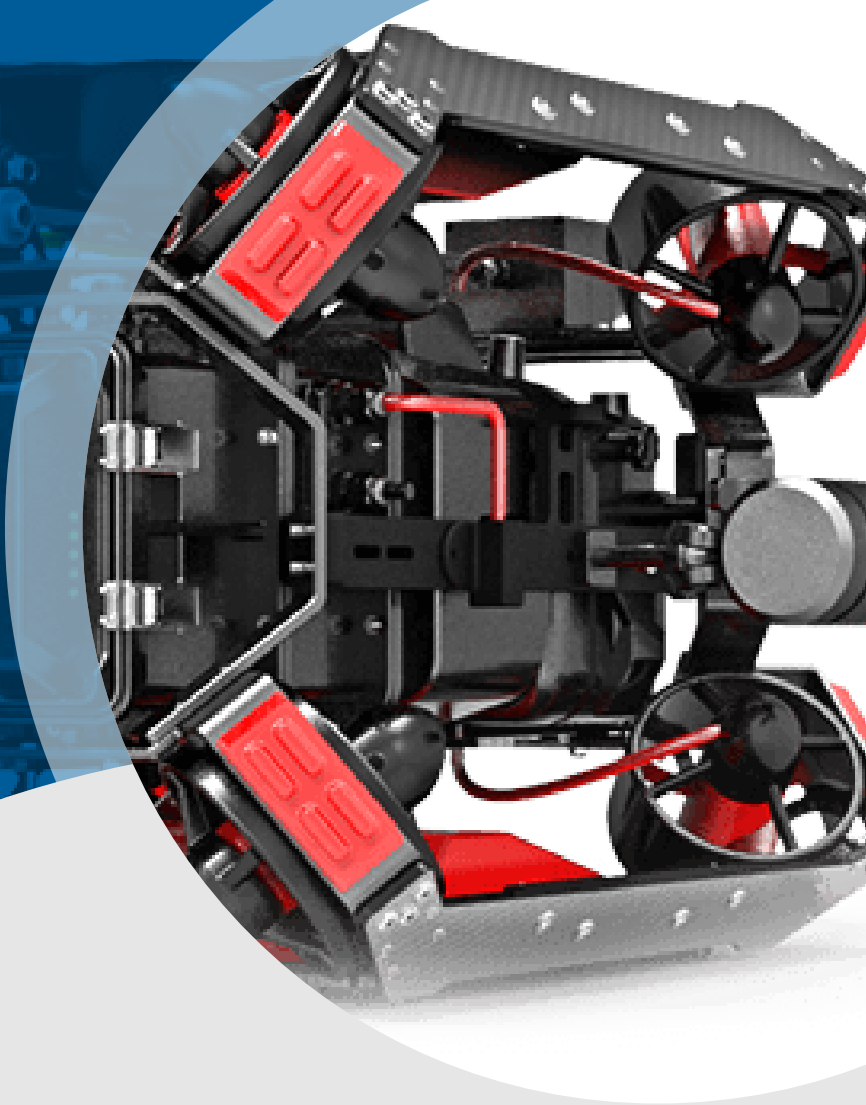
At Grips Robotics, safety is our top priority. By utilizing unmanned vehicles for inspections and surveys, we significantly reduce the risk to human personnel who would otherwise have to perform these tasks in hazardous or hard-to-reach environments. Our automated solutions minimize the need for rope access, scaffolding, or manned entry, ensuring a safer working environment for all stakeholders involved.

## **Speed and Efficiency**

Traditional methods of asset inspection and area survey can be time-consuming and labor-intensive. Grips Robotics revolutionizes these processes by employing UAVs, UGVs, and UUVs that can quickly and efficiently cover large areas and capture detailed data. This speed and efficiency enable faster project turnaround times, allowing you to make timely decisions and take prompt action based on the collected data.



# SERVICE BENEFITS



## **Cost Savings**

Our automated solutions offer cost savings compared to traditional inspection methods. By reducing the need for manual labor, equipment setup, and maintenance associated with traditional approaches, Grips Robotics helps you optimize your budget. Additionally, our efficient data collection and analysis processes minimize the likelihood of costly errors or oversights, ensuring that your resources are used effectively.

## **Detailed and Accurate Data**

Through the use of advanced sensors and imaging technology, Grips Robotics captures high-resolution imagery and collects precise data during inspections and surveys. Our analysis services further enhance the data by extracting valuable insights and generating detailed reports. This comprehensive and accurate data empowers you to make informed decisions, identify maintenance needs, detect anomalies, and optimize your operations.

## **Flexibility and Adaptability**

Grips Robotics understands that every project and industry has unique requirements. That's why we offer flexible and customizable solutions to meet your specific needs. Whether it's adjusting the scope of inspections, tailoring data analysis, or accommodating project timelines, our team works closely with you to ensure that our services align with your goals and objectives.

## **Technological Advancements**

As pioneers in the field of drone services in Nigeria, Grips Robotics remains at the forefront of technological advancements. We continuously invest in state-of-the-art equipment, software solutions, and training to deliver the highest quality services. By choosing Grips Robotics, you benefit from cutting-edge technology, innovative approaches, and industry-leading expertise.

# WHY CHOOSE US

When you choose Grips Robotics for your automation and inspection needs, you can expect exceptional service, unparalleled expertise, and numerous advantages that set us apart from the competition. Here's why you should choose us:

## Extensive Experience and Expertise

Grips Robotics is among the pioneers in the field of drone services in Nigeria. With years of experience, we have honed our skills, developed industry-specific knowledge, and successfully completed numerous projects across various sectors. Our team of highly trained professionals possesses the expertise to handle complex inspections, surveys, and data analysis, ensuring reliable results and actionable insights.

## Cutting-Edge Technology and Equipment

We pride ourselves on utilizing the latest advancements in unmanned vehicle technology. Grips Robotics employs state-of-the-art UAVs, UGVs, and UWVs equipped with advanced sensors, high-resolution cameras, and specialized equipment. This allows us to capture detailed data, perform accurate inspections, and deliver precise survey results. By staying at the forefront of technological advancements, we ensure that our clients receive the best-in-class service and solutions.

## Tailored Solutions to Meet Your Needs

At Grips Robotics, we understand that every project and client is unique. That's why we provide tailored solutions to meet your specific requirements. We work closely with you to understand your objectives, project constraints, and desired outcomes. Our team customizes our services, analysis techniques, and reporting formats to deliver results that align with your goals. With Grips Robotics, you can expect personalized attention and solutions that are precisely tailored to your needs.

## Commitment to Quality and Safety

Quality and safety are fundamental values at Grips Robotics. We are committed to delivering services of the highest standards, adhering to strict quality control processes, and maintaining a strong focus on safety protocols. Our team follows industry best practices and complies with all relevant regulations and guidelines. You can trust us to prioritize the safety of personnel, assets, and the environment, while delivering exceptional quality in every aspect of our work.

# CONTACT US

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