

**IRON MASK**  
AEROTECH (PVT) LTD



# BUSINESS OVERVIEW



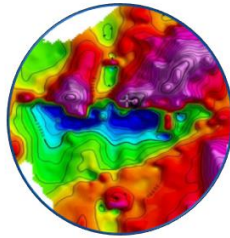
## Drone Security & Surveillance

Drone security and surveillance services for offering innovative solutions for enhancing security measures and monitoring activities in various industries. By utilizing drones, these services provide cost-effective way to gather real-time data, conduct aerial solution, and enhance situational awareness



## Aerial Mapping & Surveying

Drone aerial mapping and surveying services provide a modern and efficient approach to capturing detailed geographic data for various industries. By utilizing unmanned aerial vehicles (UAVs) equipped with advanced sensors and cameras, these services offer high-resolution imagery and accurate mapping capabilities for a wide range of applications.



## Mineral Exploration & UXO Detection

Drone magnetic mineral exploration and UXO detection services utilize unmanned aerial vehicles (UAVs) equipped with magnetometers and other specialized sensors to detect magnetic anomalies in the ground. These services are invaluable for industries such as mining, geology, and defence, providing a non-intrusive and efficient way to survey and map subsurface features.



## Precision Agriculture & Forestry

Drone-based precision agriculture and forestry services leverage unmanned aerial vehicles (UAVs) equipped with multispectral sensors and cameras to collect high-resolution data for optimizing crop management and forestry practices. These services offer a cost-effective and efficient way to monitor fields, assess plant health, and make data-driven decisions to improve productivity and sustainability in agriculture and forestry sectors.

# MANAGEMENT TEAM



**Tatenda Mafara**  
General Manager

An avid CAAZ Certified Drone Pilot with an extensive background in Land Surveying, Remote Sensing & Geographic Information Systems. From architecture to production, this passion for disruptive technologies coupled with a BSc. Honors Degree in Geo-Informatics and Surveying has helped me gain international work experience in cadastral, engineering surveying, Photogrammetry and Remote Sensing in Zimbabwe and Namibia, Tanzania.



**Terence Tarusida**  
Operations Manager

Land Surveyor by profession with 6 years of practice in the Profession. He is a trusted & certified professional in the drone industry leveraging the technology across various industries in Zimbabwe. A blend of his leadership & project management skills have enabled him to effectively coordinate teams ensuring timely completion of top-tier project deliverables.



**Melissa Afeki**  
Accountant

A dedicated and detail-oriented accountant with vast experience in financial management and analysis. Melissa is proficient in maintaining accurate financial records, preparing financial statements, and analyzing financial data to provide valuable insights to senior management. Melissa has a strong understanding of accounting principles and regulations. With her strong analytical skills and attention to detail, Melissa is a valuable asset in ensuring the financial health and stability of Iron Mask Aerotech.



**Nomagugu Lunga**  
Flight Operations Lead

A qualified Aircraft Maintenance Engineer and Certified Remote Pilot leading flight operations and Quality Control with IMA. Nomagugu is passionate about drones for good & related humanitarian work which has seen her help drive the Women in Aviation International vision that strives to empower women participation in the industry. Her meticulous attention to detail and commitment to high safety standards has seen her thrive in the industry. She is a proud member of the WAI\_Harvard Women in Leadership Class of 2024.



CAAZ Certified Commercial Drone Operator

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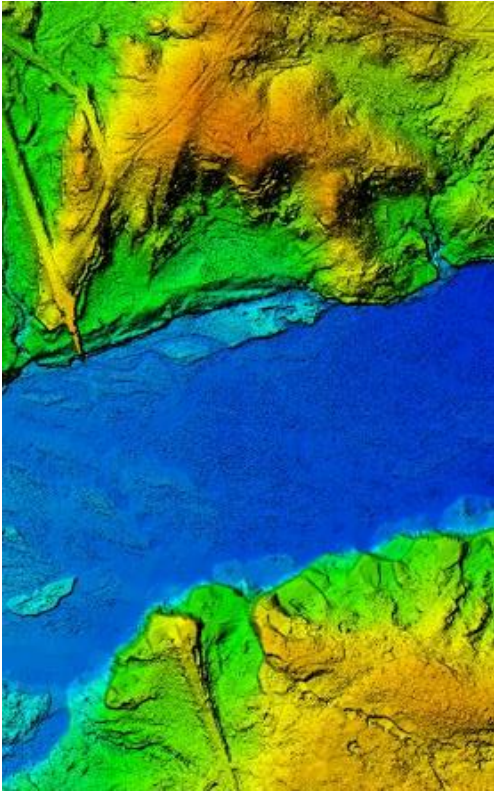
Web: [www.ironmaskaerotech.com](http://www.ironmaskaerotech.com)

# SNAPSHOT OF OUR CLIENTS





# WHAT WE DO



## Aerial Surveying & Surface Mapping Solution

- Drone Photogrammetry Surveys
- Drone LiDAR Surveys
- Terrestrial Surveys

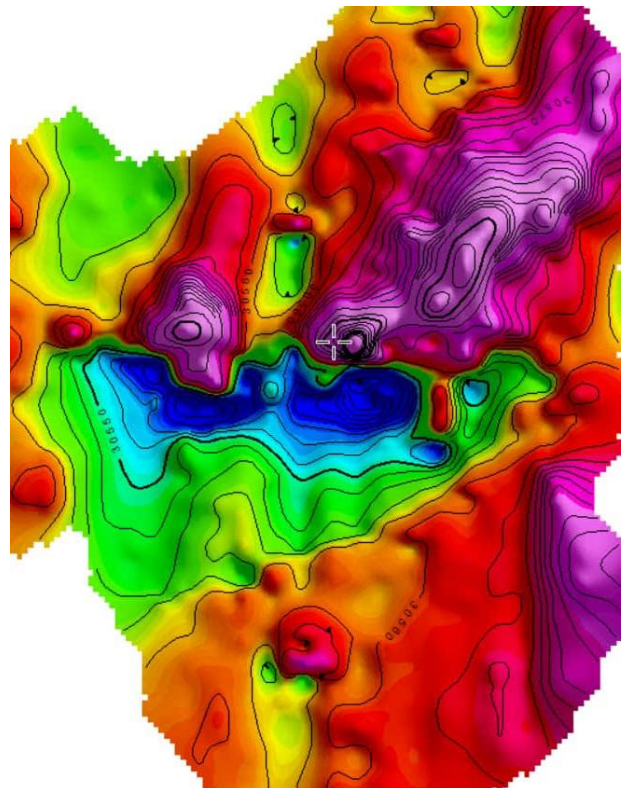
Low-cost terrain survey for engineering standard topographical mapping, aerial imagery and orthomosaic generation, etc. Depending on scale and project requirements, our team will select the best solution from the different technologies we have available.

LiDAR's ability to penetrate vegetation is important in the accurate & detailed mapping of densely vegetated areas to generate cartographic Standard feature maps and detailed 3D digital terrain models.

## Geophysical Exploration & Sub Surface Mapping

- Airborne geophysical Magnetics Surveys
- Drone Geophysical Magnetics Surveys
- Ground Geophysical Magnetics Surveys
- Induced Polarization Surveys

Iron mask Aerotech has the best tools for sub-surface mapping and resource estimation. Our exploration solutions provide non-destructive imaging and modelling of the sub-surface through identification of anomalies. Our capabilities span small scale miners to large mining corporates with vast lease areas and we can provide high resolution sub-surface data and map subtler geologic features.

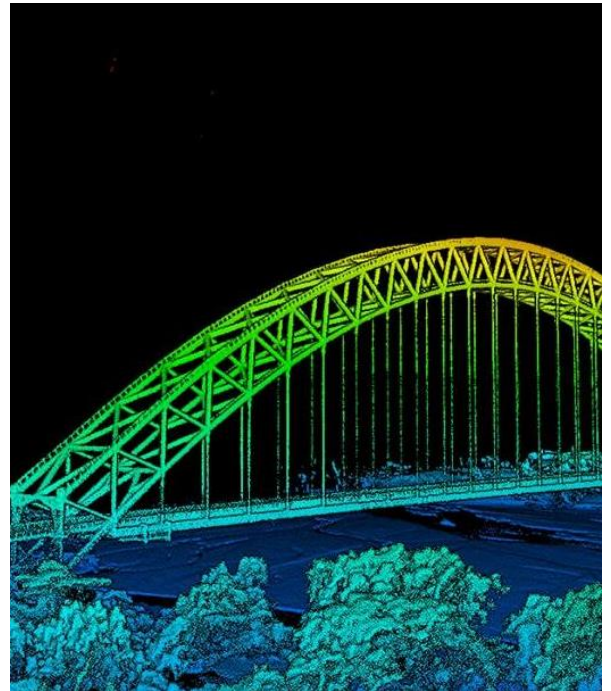


# WHAT WE DO CONTINUED

## Engineering Inspections & 3D Modelling

Geo-tagged, high-resolution images captured at strategic points around and above the structure of interest are used to generate a fully interactive 3-Dimensional model of the structure to allow engineers to analyze deformation & any changes in the structures.

- Stock-Pile Volumetric & inventory management
- Pre & Post Blast Assessments
- Digital Twin Surveys & Deformation Monitoring
- Tunnel & Underground Mapping
- Cell Tower Inspections
- Transmission Towers & Lines Inspections
- Slope Deformation & Stability Assessments



## Precision Agriculture, Forestry & Environmental Assessments

Our precision agriculture, forestry & Environmental assessments solutions include the following:

- Crop Spraying
- Crop health monitoring
- Plant height profiling
- Canopy Structure Analysis
- Total Tree counts
- Wood Volume Calculation
- Watershed Modelling

The solution is a game-changer for farmers and interested stakeholders. These include crop insurance companies, auditing firms that conduct bio-audits on large-scale farming projects and plantations that require rapid post-disaster assessments



# WHAT WE DO CONTINUED



## Drone Systems & Geospatial Data Integration Consultancy

Iron Mask Aerotech provides support to help businesses incorporate drone technology into their processes safely, cost effectively and within the current regulatory framework.

Our support is through the following phases of integration:

- Integration Proposal Development
- Proof of Concept
- Procurement Strategy
- Training & Setting -up
- Full – integration
- Support & Maintenance Services

## Drone Security & Surveillance

Our Drone Security & Surveillance package offers an extra layer of security to help detect & deter crime in the fight to protect your prized possessions, our drone solution provides an extra eye in the sky for day & night surveillance – essential for effective rapid response.



# WHAT WE DO CONTINUED

## Cloud Drone Data Processing platform

Iron Mask Aerotech offers cloud – based data processing through our website capable of handling up-to 10,000 images in a single mission. This solution was specifically developed for drone professionals and Land Surveyors who do not have the capacity to process the drone data themselves. The platform has very high security protocols and guarantees fast turnaround times for users.

The solution caters for the following:

- Aerial RGB data processing
- LiDAR Data Processing
- Magnetics Data Processing







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