

KERIS

TERBANG

Celebrating Dual Milestones



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CONTENTS

04

RBAF 62nd Anniversary

08

RBAirF 57th Anniversary

10

Eid-UI-Fitr & Eid-UI-Adha

14

RBAirF-RSAF AWG

18

RBAirF Overseas Participation

22

No. 2 Wing CO Challenge

24

OHS - MSD

26

Doctrine - Air Transport

28

Flight Safety - Case Study

34

Military Tech - Drones

36

Tech - Smart Glasses

38

Fitness - Borneo 100 Miler

KERIS TERBANG

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EDITOR-IN-CHIEF'S REMARKS

السَّلَامُ عَلَيْكُمْ وَرَحْمَةُ اللَّهِ وَبَرَكَاتُهُ
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Welcome back to our latest issue of Keris Terbang.

Our magazine aims to provide an insight to the daily lives of the men and women of the Royal Brunei Air Force. A collection from varying backgrounds within our unit, granting a perspective of the expertise and professionalism we have to showcase.

In this edition of Keris Terbang we have provided a depiction of our yearly activities and key milestones. This includes our various events, engagements and many more exciting articles to read through. As a highlight for this issue, whilst we have all been busy with the Royal Brunei Armed Forces Day in celebrating its 62nd Anniversary, the Royal Brunei Air Force also proudly celebrated its 57th Anniversary alongside. With so many key moments in 2023 which include the fasting month, Hari Raya and engagements with regional Air Forces, we would also like to share the highlights of the Royal Brunei Air Force thus far. I do hope this magazine gives a great insight into our day to day lives whilst also providing educational opportunities through a variety of case studies, tech summaries and a fitness article for the running enthusiasts.

We do hope that you enjoy our 14th edition of Keris Terbang as we aspire to motivate the men and women of the RBAirF in all their hard work. I am very proud of how far we have come along and would also like to take this opportunity to thank my team and all article writers who contribute and dedicate their time to the success of this magazine. Please continue to support us with any articles, stories or images you would like to include in future editions.



RBAF 62ND ANNIVERSARY CELEBRATION



On the 31st of May 2023, the Royal Brunei Armed Forces (RBAF) celebrated its 62nd anniversary, marking 62 years of devoted service and contributions towards the country of Brunei Darussalam. This event signified more than 60 years of collective efforts in keeping the country safe through relief efforts and the hearts and minds approach. This year's celebration was hosted by the RBAirF at the Rimba Air Force Base.

The scorching sunlight that morning did not dampen the public spirit, as many people from all walks of life made their way to the RBAirF Base to celebrate the RBAF's 62nd anniversary, expressing their military spirit and support for the RBAF. It was a fantastic opportunity for the public to witness and interact with military personnel, equipment and exhibitions. Retired military personnel were also invited, and they were recognised for their bravery, dedication and service to the nation at large.

The highlight of the RBAF Anniversary Celebration was the Grand Parade involving more than nine hundred RBAF personnel at the Parade Ground of the RBAirF Sports Complex. His Majesty the Sultan and Yang Di-Pertuan of Brunei Darussalam attended and inspected the Grand Parade. The parade showcased the discipline, precision, and skills of the Armed Forces personnel. This is a common way for the military to display their readiness and capabilities.



Lt (U) Fazrina

Shortly after arrival, His Majesty received the Royal Salute. His Majesty then inspected the Grand Parade under the command of Lt Col (U) Muhammad Walee bin Haji Roslie.

This was followed by the slow and fast march past by the parade forces carrying His Majesty's Crest and the RBAF Crest. The cheers of 'Daulat Kebawah Duli Tuan Patik' echoed in the air symbolising the united spirit of all RBAF personnel.

The celebration was enlivened with a fly-past of the RBAirF Blackhawks and the CN-235 aircraft making the long-awaited appearance. This year's celebration theme, "Bersama Menjayakan Wawasan Negara" or 'Together in Accomplishing the National Vision' is in line with the role of RBAF in supporting national progress and development holistically.

The event was not only a time for celebration but also an opportunity to reflect on the RBAF's historical journey, acknowledging the challenges and lessons learned from them as well as the milestones achieved. It served as a reminder of the organisation's commitment to national defence, peacekeeping, disaster relief, and other vital roles it plays in Brunei Darussalam and potentially in international contexts.

Such milestones often prompt the Royal Brunei Armed Forces to reaffirm their dedication to the country, boost their commitment to training and preparedness, and strengthen their bonds with the community they serve. In a nutshell, the RBAF's 62nd anniversary celebration represented a significant moment to honour the organisation's legacy while looking forward to a future of continued service and excellence.



DEFENCE INDUSTRIES EXHIBITION IN CONJUNCTION WITH THE ROYAL BRUNEI ARMED FORCES 62ND ANNIVERSARY

The Defence Industries Exhibition held in conjunction with the 62nd Royal Brunei Armed Forces (RBAF) anniversary was a prestigious event that showcased the latest advancements in military technology, equipment, and defence systems. This exhibition served as a platform for defence industries from around the world to present their innovative products and solutions to military officials, government representatives, and the public. Moreover, it served as a valuable platform for knowledge exchange, enabling attendees to stay informed about the latest strategies and tactics employed in defence and security.

The concept for this Defence Exhibition focused on showcasing Humanitarian Assistance and Disaster Relief (HADR) Operations capabilities and interoperability capabilities that can benefit security agencies in addressing current security challenges. A total of 40 participating defence companies from the region including the participation of companies from the United States, Germany, and Spain had shown their enduring commitment and support in making this exhibition a success.



This exhibition not only provided a platform for Brunei Darussalam security agencies to have an opportunity to engage with the various defence companies, however it also allowed RBAF to foster strong relationships with its dialogue partners, which will solidify its diplomatic relations in the region.

Equipment ranging from small arms, communication systems, autonomous vehicles, and transport systems varying in all 3 domains of land, sea, and air were showcased for security agencies to view. The presence of relevant authorities and security agencies during this event allowed the enriching of knowledge and sharing of the latest products and technologies available for operations and routine work.

The event typically featured live demonstrations, allowing military personnel to witness the capabilities of various equipment firsthand. Experts and representatives from the defence industry engaged in discussions and presentations, sharing insights into emerging trends and future developments in military technology. This exhibition not only promoted collaboration between the Royal Brunei Armed Forces and defence companies but also fostered international cooperation in the defence sector.

In conclusion, the Defence Industries Exhibition for the 62nd RBAF anniversary provided a comprehensive overview of state-of-the-art military technologies, encouraging dialogue, collaboration, and the continuous enhancement of national defence capabilities.





24th June is a very special date for all RBAirF personnel as it marks the birth of the RBAirF. This year marks the significant milestone of 57 years of inception of the organisation.

The series of events began with a Thanksgiving Ceremony to commemorate the RBAirF's 57th Anniversary. It was held on Friday, 23rd June 2023 at Surau Al-Barakah, Rimba Air Force Base (Rimba AFB). The event commenced with a mass Maghrib Prayer, Sunat Hajat Prayer, the recital of Surah Yassin and Tahlil, Doa Kesyukuran to commemorate the 57th Anniversary of the RBAirF and concluded with Isya' Prayer.

The main event was held on Saturday afternoon, 24th June 2023 with a parade ceremony which was led by Major (U) Haji Mohammad Azmi bin Haji Afflon at the Sports Complex, Rimba AFB.

The highlight of the ceremony this years anniversary was the presentation of Operations Group badges to Colonel (U) Hishamuddin bin Abidin, the Commander of Operations Group and the Support Group badges to Lieutenant Colonel (U) Pengiran Hasrul Ariffin bin Pengiran Haji Rosley, the Commander of Support Group. The ceremony continued with Wing Commanding Officers receiving their individual Wing badges. The ceremony was attended by Senior Officers, Officers, Seargent Majors and RBAirF personnel of all ranks.

The ceremony was blessed with a recital of Doa Selamat by Ustaz Pengiran Fakhru Syakirin bin Pengiran Haji Zainuddin, RBAirF Religious Teacher. The ceremony concluded with a cake cutting event and Hi-tea at Punai Hall, Rimba Air Force Base.

57TH ANNIVERSARY OF THE ROYAL BRUNEI AIR FORCE

By: Lt (U) Nadzirah



The final event to conclude the celebration was a Dinner Night Event held on Friday, 11 August 2023 at Dewan Indah Biru, Lugu Industry. This combined event gathered about 650 RBAirF Officers and Senior Non-Commission Officers, coming from internal as well as external units. The guest of honour was Brig Gen (U) Dato Seri Pahlawan Mohammad Sharif bin Dato Paduka Haji Ibrahim, the Commander of RBAirF. Also in attendance was Brig Gen (U) Dato Seri Pahlawan Haji Alirupendi bin Haji Perudin, Joint Force Commander, as well as other invited guests.



Eid Ul Fitr

THE MONTH OF CELEBRATION

By Lt (U) DZIQRY

Eid-ul-Fitr, also known as the "Festival of Breaking the Fast," is one of the most significant religious celebrations in Islam. It marks the end of Ramadan, a month of fasting, prayer, and reflection. This joyous occasion is celebrated by Muslims worldwide, transcending borders and cultures, to come together in unity and gratitude.

Eid-ul-Fitr holds great spiritual and cultural significance for Muslims. It not only signifies the completion of a month-long fast but also represents a time of renewal, self-improvement, and strengthened faith. It is a time for Muslims to express their gratitude to Allah for providing the strength to observe the fast and seek forgiveness for any shortcomings.

Fasting during Ramadan is not just about abstaining from food and drink; it is a comprehensive exercise in self-discipline, self-control, and empathy for those less fortunate. Eid-ul-Fitr, therefore, represents the culmination of these efforts, a reward for the steadfastness shown during the holy month.

In the days leading up to Eid-ul-Fitr, homes are adorned with colourful lights, and families engage in thorough cleaning and decorating to create a festive atmosphere. New clothes are often bought or sewn for the occasion, and children eagerly anticipate receiving "Eidi" – monetary gifts given by elders.





The day begins with a special Eid prayer at the mosque, where Muslims gather in congregation to seek blessings and offer gratitude. After the prayer, it is customary to exchange heartfelt greetings and good wishes, fostering a sense of community and unity.

One of the most anticipated aspects of Eid-ul-Fitr is the extravagant feast that follows. Families and friends come together to share a meal that often features traditional dishes like Satay, Nasi Lemak, cakes like *Kek Batik*, and a variety of desserts. This communal meal not only celebrates abundance but also emphasizes the importance of sharing and caring for one another.

Eid-ul-Fitr places great emphasis on acts of charity and giving back to the community. It is customary for Muslims to provide "Zakat-ul-Fitr" – a form of almsgiving – to ensure that those less fortunate can also partake in the festivities. This practice reinforces the values of compassion, empathy, and social responsibility within the Muslim community.

While the core elements of cultures and traditions of Muslims around the world are similar. Different regions add their unique flair, incorporating local customs, attire, and culinary delights, creating a rich tapestry of festivities. Eid-ul-Fitr remain the same, its celebrations are enriched by the unity amongst different races and groups.

Eid-ul-Fitr transcends geographical and cultural boundaries, uniting Muslims worldwide in a shared celebration of faith and gratitude. In many countries, it is recognized as a public holiday, allowing Muslims to observe the occasion with their families, friends, and communities.

Eid-ul-Fitr serves as a powerful reminder of the values of unity, empathy, and self-improvement. As families and communities come together to celebrate, the spirit of Eid-ul-Fitr extends beyond religious observance, promoting understanding and harmony among diverse cultures and societies. In its essence, Eid-ul-Fitr is a celebration of the universal human values that bind us all.



EID UL-ADHA

mubarak

By:
Cpt (U) Hamizan

The RBAirF elevated its spiritual devotion this year during Eid Ul-Adha, a momentous Islamic festival marking the Hajj pilgrimage. The moon sighting of the new Islamic month of Zulhijjah was announced through the Radio Television Brunei and followed the announcement of the Eid Ul-Adha which fell on the 10th day of Zulhijjah, marking one of the most sacred times of the year for Muslims. It is one of the two major Islamic festivals in the Islamic calendar, the other being Eid Ul-Fitr.

The festivities at Rimba Air Force Base began with 'Malam Takbir' at Surau Al-Barakah on the eve of Eid Ul-Adha. Amongst present was the Commander of the RBAirF Brig Gen (U) Dato Seri Pahlawan Mohammad Sharif bin Dato Paduka Haji Ibrahim, as well as other servicemen and local residents for the Maghrib and Isya' prayers, followed by the takbir recital.

By sunrise of 29 June, Imam Muhammad Fathurrahman led the congregation in the Sunnat Aidiladha special prayer at the Surau Al-Barakah, characterised by two Rakaats and six additional Takbirs. The sermon was then read by Imam Haji Shaipin bin Haji Abu Bakar, which contained reminders focusing on the core meaning of Eid Ul-Adha; faith, obedience, and submission to Allah's will. The sermon drew parallels with the Prophet Ibrahim's remarkable obedience, encapsulating the exemplar of Eid Ul-Adha and its meaning of absolute submission to Allah's commands.

The main event for the RBAirF fell on June 30 with the Korban and Aqiqah Event that was held at Dewan Punai, RAB, a display of profound spiritual conviction. A total of five buffaloes and seven goats were sacrificed, with the meat distributed as Qurbani donations among the RBAirF personnel, their families, and more than 130 underprivileged individuals residing in Kampong Rimba. This selfless act was in harmony with Islamic charitable principles, affirming the RBAirF's dual commitment to their Islamic faith and national service. Additionally, the overwhelming eagerness for the participation of the RBAirF personnel in the Qurban event satisfies the religious obligations. It fortifies the dedication of military personnel in service to Allah and our nation. The celebrations culminated in a communal feast, emphasising the unity and mutual respect amongst all present.

This year's celebration of the RBAirF has offered an enduring model of how military discipline intertwines seamlessly with religious devotion. The ceremonies, especially the Qurbani sacrifice, symbolise the blend of Islamic principles and military ethos. As Eid Ul-Adha 1444/2023 comes to a close, one thing remains certain, the RBAirF has etched a lasting blueprint, merging spiritual submission to Allah with disciplined national service and community welfare. With this unique synthesis of duty and devotion, the RBAirF proudly stands as a paragon of how religious obligations can blend with service to the nation, thereby enriching both dimensions.



Eid-Ul-Adha, 2023



RBAirF and RSAF **AIR WORKING GROUP**

Enhancing bilateral relations while sharing best practices, exploring new technologies and new opportunities for collaboration.

By Cpt (U) Sufiah



MAINTAINING A CLOSE FRIENDSHIP



The Air Working Group (AWG) marks another major milestone in the bilateral relationship between both Airforces in its longstanding relationship. The interaction, which was formally officiated by Brig Gen (U) Dato Seri Pahlawan Mohammad Sharif bin Dato Paduka Haji Ibrahim, Commander of RBAirF and Major General Kelvin Khong Boon Leong, Chief of Air Force, RSAF back in November 2022. RBAirF and RSAF then held their first AWG in Singapore MINDEF on 15 March 2023 which was Co-Chaired by RBAirF Chief of Staff, Lt Col (U) Haji Mohamad Albadii Shahnoel bin Haji Mohamad Noeh, and RSAF Chief of Staff – Air Staff Brig Gen Lau Boon Ping.



The AWG continues with sharing sessions by RBAirF about the operational progress of its new Unmanned Aerial System Platform. RSAF also presented thoughts and recommendations to help expedite the understanding and adoption of UAS technology. Apart from that, AWG also included discussions on expansion of current existing bilateral training to further enhance interoperability of both air forces. RBAirF then proposed the idea of the Junior Officer Exchange Program, and both parties agreed to it. In the near future, through this program, junior officers will be able to experience the culture and comprehend the operational context of both countries, which is something to look forward to. On an annual basis, AWG will continue to provide a platform for exploring potential new bilateral engagements.





RBAirF Overseas Participation

By
Lt (U) Khalid

STRENGTHENING CAPACITIES

The RBAirF maintains its commitment to ensure all its personnel can benefit from overseas participations

Place
RSAF

Date
May, 2025



“One of the most memorable experiences from the training was the hypoxia training. In this exercise, we entered a high-altitude chamber and breathed air that simulated the altitude of 24,000 feet. As the altitude increased, I began to feel the effects of hypoxia, including dizziness, lightheadedness, and shortness of breath. I also had difficulty concentrating and making decisions. This exercise was a valuable reminder of the importance of using oxygen equipment at high altitudes,”

A total of 15 personnel attended the Aviation Physiology Training in RSAF Aeromedical Centre in Paya Lebar, Republic of Singapore. Its primary objective is to provide education and experience to aircrew and aviation related personnel on the impact of the aviation environment on the human body.

both physically and mentally. Participants were able to get the experience of rapid decompression effects, hypoxia effects and breathing in rarefied air using the Altitude (Hypobaric) Chamber. In addition, with the use of Somatogyral Turntable Simulator, participants were exposed to the experience of spatial disorientation.

Aircrews can incredibly benefit in participating this course as it improves safety knowledge and standards when it comes to the avoidance and response to physiological emergencies, it helps personnel to perform better by learning about the effects of fatigue, stress and other factors on their performance and lastly it helps personnel to become more aware on their own physiological limitations and how to manage them effectively.





AIR WARFARE OFFICER COURSE

The premiere course for Ground
Based Air Defence operators

Contributor
Cpt (U) Zaki

Place
RSAF

Date,
May-December, 2023



The 18th Air Defence Weapon (ADW), Air Warfare Officer (AWO) course under Air Force Training Command (AFTC), The Republic of Singapore Air Force (RSAF) was an eye-opening experience for us. The course was designed to train and equip future air officers with the required system and operational knowledge of RSAF's integrated air defence system - Robotsystem 70 (RBS-70) and Portable Search and Target Acquisition Radar (PSTAR).

During the second phase of our course, for three months, mission planning and deployments were conducted weekly which concluded with a 3 days Summary Exercise. Throughout these few months, we were given the opportunity to hold various detachment appointments which enforced first-hand experience on the mental, physical and skillset that's required of our RBAirF Air Defence NCOs; we salute you air warriors!

To add on, one of the major challenges for us was not being exposed to RSAF standard operating procedures, so learning-by-doing was our pis aller. Apart from that, sharing insights and ideas to tactical problems from a different cultural perspective was the crème brûlée of this course.

Overall, we have gained so much from these six months course - both professionally and personally. The highlight of our time here was making new friends and, experiencing the local cultures and dishes. We greatly appreciate and thank No.2 Wing specifically, RBAirF generally for this opportunity. This training has provided us with the utmost credibility that's required of a young Air Defence Officer and the essential knowledge to fill the gaps of current and future RBAirF air defence systems.





Unit Logistics Officer Course

APRIL, 2023



By
Lt (U) Qurratu

COURSE INSIGHT

Before I embarked on the journey of attending Unit Logistics Officer Course, I had only limited knowledge on military logistics. The course was one of significant milestones in my military career as it has offered valuable insights on logistics operations within the Republic Singapore Armed Forces.

The course was conducted at School of Logistics (SOL), Advance Training Logistics Training Institute (ALTI), Kranji Camp III, Republic of Singapore. The primary objective of this course was to equip selected officers to hold the appointment of Battalion Logistics Officer of the Combat Service Support Units, with a focus on logistics manpower and analytics.

One of the most notable aspects of the course was the successful achievement of the learning module objectives. In the final week of the course, the culmination of our efforts was put to the test in the form of a two-day exercise known as Exercise EAGLE STRIDE, during which each syndicate delivered their respective Approval of Plan (AOP). Post-exercise, we engaged in online assessments covering all course modules to evaluate our overall understanding of the course material. The course concluded with the presentation of certificates and gifts to all course participants by the esteemed Guest of Honour, Lieutenant Colonel Alan Boo, Deputy Commander of ALTC. This was a moment of accomplishment, marking the successful completion of our Unit Logistics Officer Course.

Overall, my experience attending the course was not merely about acquiring knowledge, but also a journey of growth and transformation. Additionally, we were also able to exchange ideas and knowledge with international counterparts. I am immensely grateful for this opportunity and aspired to continue learning more about logistics and contribute to my unit's success.

Learning the ways of logisticians

➔ Basic and Intermediate Flying Training Course 59

PLACE
Australia

CONTRIBUTOR
Lt (U) Hazwanie

DATE
April, 2023



The Basic and Intermediate Fixed Wing Pilot Training Course 59 commenced on 24 April 2023 at Air Combat Australia, Australia. A total of 7 student pilots are currently attending the course. The course is expected to end on 23 February 2024. The objective of the course is to produce highly skilled pilots who are ready to perform flight tasks on the front-line aircraft and to establish the basic knowledge for future pilots to have a high standard by learning both basic flying methods and the usage of advanced flying technologies.

The course has trained us to maintain our composure in a high-pressure environment and to be more confident in performing our duties with the highest standard.

In addition, it has improved our situational awareness and be more attentive to our surrounding during flights. Moreover, we have built the capacity to improve our multitasking skills as we are constantly monitoring and scanning throughout our air exercise. Not only it is useful during flight but also on the ground as an Officer in the RBAirF. The course itself definitely is intense for an inexperienced student pilot as it is an introduction to the unfamiliar world of aviation. The training definitely is not an easy journey. The challenges are apparent and is mentally demanding and it requires a lot of hard work, dedication and commitment to excel.

“

We are thankful to be taught by experienced instructors and are trained in military syllabus, for example we undergo Aerobatic lessons to train and know the limitations of the aircrafts and even ourselves. Furthermore, with the assistance of well skilled and experienced flying instructors, our training will definitely help us excel and also for the betterment of our future career in the RBAirF as an operational pilot

”



NO. 2 WING CO CHALLENGE

Mind
Over
Body

By Lt (U) Zainul





“The challenge does not only test your physical ability, but also and more importantly the mental capacity”

The CO Challenge is an annual competition held by No. 2 Wing, Operations Group, RBAirF participated by teams from different squadrons under No. 2 Wing. The challenge was made up of a number of phases including Basic Military Fitness Tests, Military Knowledge, and Vocational Tests. The first phase of the competition, which was the Fitness Challenge included Military Individual Assessment (IFA) and Military Swimming Test (MST) to evaluate the physical fitness of the participants. The Second phase which is General Knowledge Challenge was a written test on national, military, and Malay Islamic Monarchy Knowledge. The final phase of the competition was the Vocation Challenge which assessed the teams on their leadership, teamwork, and physical endurance through eight stages of basic military assessment tests.

This year the challenge was held at Penanjong Garrison from 14 to 17 March 2023 with a total of 16 detachments and 11 section from 233 Squadron, 236 Squadron and 238 Squadron. Competing teams underwent checkpoints such as Map Reading station that will test the personnel on their knowledge to read map and navigate to find the places that were told to find, Obstacle Challenge to test their physical fitness and their critical thinking, First Aid to test their knowledge on how to handle emergency situation when there's injured personnel, Night Deployment to test their skills and time while doing deployment at night and FIBUA Deployment.

The 2023 CO's Challenge for Air Defence was won by detachment 21 Bravo from 238 Squadron, led by 50790 Lance Corporal (U) Md Sharol Alai Alizam bin Zahari. Meanwhile, the Base Defence was won by Section 31 Charlie from 236 Squadron, led by 52658 Lance Corporal (U) Muhammad Yusry bin Haji Isak.

Work-Related Musculoskeletal Disorders

Safety First

1.

Musculoskeletal Disorders (MSD) can be defined as injuries or disorders of the muscles, nerves, tendons, joints, cartilage, and spinal discs.

Work-related Musculoskeletal Disorders (WMSD) on the other hand are work conditions in which the nature or requirement of the work contributes significantly to the disorder. This disorder is typically made worse due to prolonged exposure to the said working conditions.

2.

Some examples of MSDs include:

- Sprains, strains, and tears
- Back pain
- Carpal tunnel syndrome
- Hernia2

3.

One method for dealing with MSDs is ergonomics. It is the science of fitting workplace conditions and job demands to the capability of the working population. The main objective is to reduce stress and eliminate injuries and disorders associated with the overuse of muscles, bad posture, and repeated tasks. A workplace ergonomics program can be implemented to prevent or control injuries and illnesses by eliminating or reducing worker exposure to WMSD risk factors using engineering and administrative controls or PPEs.



Take time to stretch when sitting down over long periods at work!

Ensure you obtain medical care once signs of WMSDs start to show.

By Lt (U) Nadzirah

LEARN HOW TO WORK OUT AT THE WORKPLACE

EASY DESK STRETCHES

YOU CAN BOOST YOUR ENERGY AND IMPROVE YOUR POSTURE
WHILE AT YOUR DESK WITH THESE EXERCISES.



INSERT DESK EXERCISE 1



INSERT DESK EXERCISE 2



INSERT DESK EXERCISE 3



INSERT DESK EXERCISE 4

A HEALTHY BODY LEADS TO A HEALTHY MIND

AIRLIFT

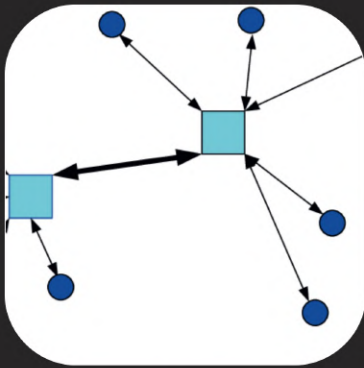
A CRITICAL ROLE FOR THE AIR FORCE

By: Maj (U) Alli Farid



DEFINITION

Airlift is the ability to transport personnel and materiel through the air. These can either be within the inter- or intra-theatre domains and are further subdivided into four major types of operations including hub and spoke operations, airborne operations, aeromedical evacuation and special forces air operations.



HUB AND SPOKE OPERATIONS

Hub and spoke operations made up of both inter and intra theatre airlift, making the majority of airlift operations. In this mechanism, personnel or materiel are transported to inter-theatre to hubs which is located near operation theatres. These hubs will then be used for intra-theatre transport within the surrounding areas.

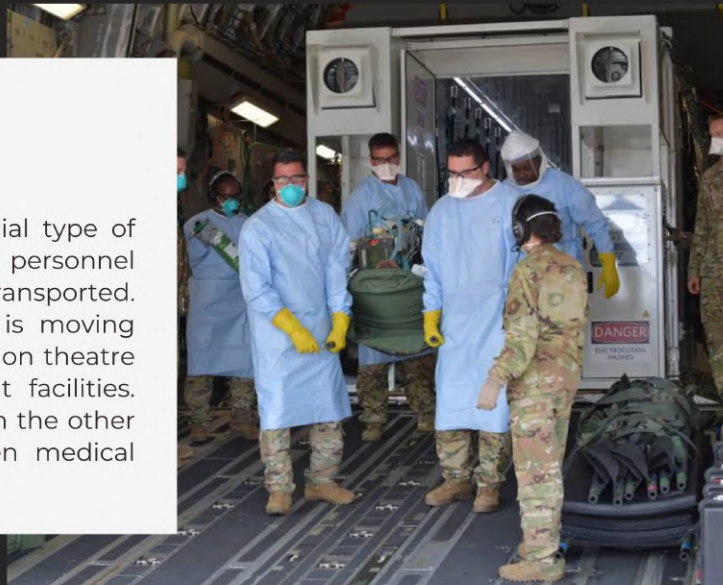


AIRBORNE OPERATIONS

Airborne operations simply mean the transfer of personnel with or without equipment directly into the area of operations. Their objective may also include extracting the personnel when the mission has ended. An example would be the conduct of parachute operations.

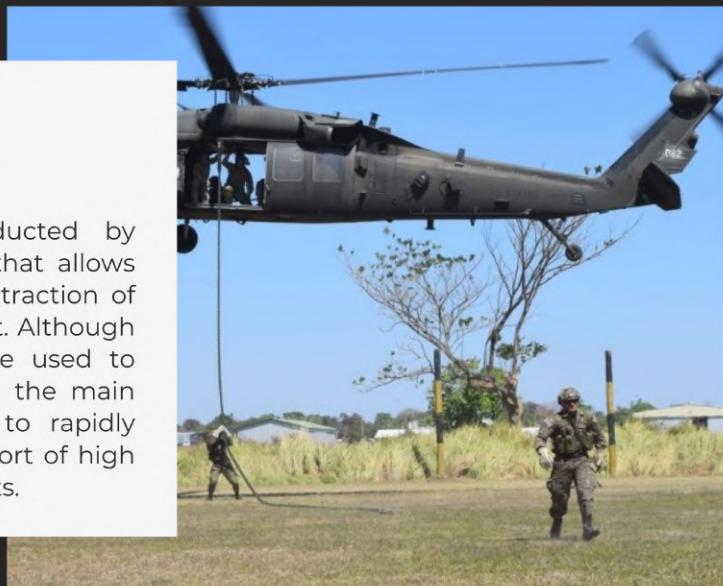
AEROMEDICAL EVACUATION

Aeromedical evacuation is a special type of airlift where injured or seriously ill personnel under medical supervision are transported. Forward aeromedical evacuation is moving injured personnel from the operation theatre to appropriate medical treatment facilities. Tactical aeromedical evacuation on the other hand is moving patients between medical facilities.



SPECIAL FORCES AIR OPERATIONS

These are air operations conducted by specialist aircraft and personnel that allows the insertion, sustainment and extraction of special forces and their equipment. Although all four air power roles could be used to support special forces operations, the main difference is having the ability to rapidly move specialist personnel in support of high priority objectives and requirements.



In the local context, the RBAirF is able to perform a majority of the missions stipulated using its Blackhawk S70i fleet as well as the CN235 fixed wing platform. Various airlift missions have been performed over the years contributing not only to the military operations, but also to the national objectives. Within the near future, the RBAirF looks to strengthen and expand its airlift capabilities with the planned acquisition of the C295 aircraft.



MILITARY AVIATION

CASE STUDY



MILITARY AVIATION CASE STUDY - 1989 SOVIET MIG-23 CRASH IN BELGIUM

Lt (U) Najib

INTRODUCTION

On the 4th of July, 1989, an experienced Soviet Air Force pilot by the name of Colonel Nikolai Skuridin, had just returned from vacation and was conducting a test flight over Polish airspace. As he took off in his MiG-23 fighter aircraft from the Bagicz Airbase near Kołobrzeg, the aircraft's engine's afterburner failed, causing a partial loss of power - leading to a loss of altitude. At 500 ft above ground level, the pilot interpreted it as a sign of engine failure and immediately after, informed the dispatcher that he would eject out of the aircraft. Skuridin ejected himself safely but the aircraft's engine kept running.

Shortly after the aircraft was abandoned, it remained airborne, flying with the autopilot on and heading west, leaving Poland and entering Germany. There, it was intercepted by two F-15 fighter jets from the 32nd Tactical Fighter Squadron of the United States Air Forces Europe that was stationed at Soesterberg Air Base in the Netherlands. After the F-15 pilots confirmed that the aircraft was pilotless, they decided not to shoot it down as it was not carrying any nuclear-based weaponry and was flying over densely populated areas of Germany, the Netherlands and Belgium; where, if shot down, the debris from the wreckage could cause numerous heavy casualties.

As the aircraft flew past Dutch airspace and into Belgian territory, the F-15 pilots were instructed to shoot the aircraft down over the North Sea to avoid risk of human casualty. However, the MiG-23 started to run out of fuel and lose airspeed, turning slowly to a southerly heading, eventually crashing into a house in Western Belgium, near Kortrijk - 5-10 km away from the French border and killing a local teenage resident, Wim Delaere.

KEY TAKEAWAYS

Some of the notable key takeaways of this incident in view of flight safety are as follows;

- **Sacrifice in Service:** The incident underscored the inherent risks faced by military aviators in their line of duty, highlighting that there will always be a risk to life in pursuit of national security.
- **Technological Vulnerabilities:** The incident has brought to light the vulnerabilities inherent in high-performance aircrafts. Technical malfunctions, although rare, can have devastating consequences.
- **Accountability and Reporting Culture:** In the aftermath of the incident, the Belgian government made a formal protest to the Soviet Union for the lack of warning or general notification with regards to the unmanned aircraft.



LESSONS LEARNED

The significant lessons learned from this incident are as follows:

- **Know Your Tech:** It is imperative in today's world to know and understand the capabilities of one's tech. Fully understanding the capability of an aircraft could help reduce or mitigate completely, the risks that would be caused from an incident of any scale.
- **Enhanced Training Protocols:** The incident highlighted the need for advanced and rigorous pilot training protocols, especially for maintenance test pilots (MTPs). Today, aviators go through relatively intensified training to handle emergency situations, ensuring more adept response to unforeseen challenges.
- **Accountability and Reporting Culture:** It is paramount that a reporting culture and professional accountability be routine in aviation. Constantly reporting minor or major issues within the aviation industry and being accountable for faults or issues could ultimately save a great number of lives, if not just one.





KEEP SAFE IN CYBERSPACE



01. Keep personal info to yourself

Everything can be made public on the internet, so avoid spreading personal information.

02. Check your privacy settings

Look through your web browsers and make the appropriate changes to your settings.

03. Be mindful of what you download

Make sure what you're putting in your system is safe, secure, and authorized by you.

04. Be wary of your "friends"

It's easy to lie online, so make sure who you're talking to is truthful about themselves.

05. Get a good antivirus program

An antivirus program keeps unwanted applications from infiltrating your system.



LET'S MAKE THE INTERNET SAFE FOR ALL!



**Royal Brunei
Air Force**

Photography *Competition*

Any picture relating to RBAirF

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DRONE **TECHNOLOGY**



MATRICE

300 RTK

By Lt (U) Rahiim

Featured Brand



BEING THE DIFFERENCE



DRONE USAGE

The rapid advancement of drone technology has brought about a significant shift in modern warfare. Unmanned Aerial Systems (UAS) commonly known as drones, have evolved from being tools for surveillance and reconnaissance to becoming potent military threats with the capacity to disrupt, surveil and engage in combat operations. The versatility and ability to access hard-to-reach areas have revolutionized the way tasks are executed, enhancing efficiency and safety.

However, with its numerous benefits, when used by adversaries they also pose certain threats and challenges that further which requires organizations to have its own unique defenses. Addressing these challenges requires a balanced approach involving regulations, technology, and responsible drone operation to ensure that the advantages of this transformative can be harnessed while minimizing its potential drawbacks.

he RBAirF has recently acquired a fleet of Matrice 300 RTK drones from Aonic Malaysia. These drones are an upgrade to the existing assets and they are able to fly longer, travel further and are equipped with more advanced payloads and sensors to facilitate day and night operations. These drones will be operated by No. 2 Wing and will be used on a variety of missions.



MATRICE RTK 300

HD

960P

55 MIN

20 MP

SMART GLASSES

By:
Lt (U) Saifullah

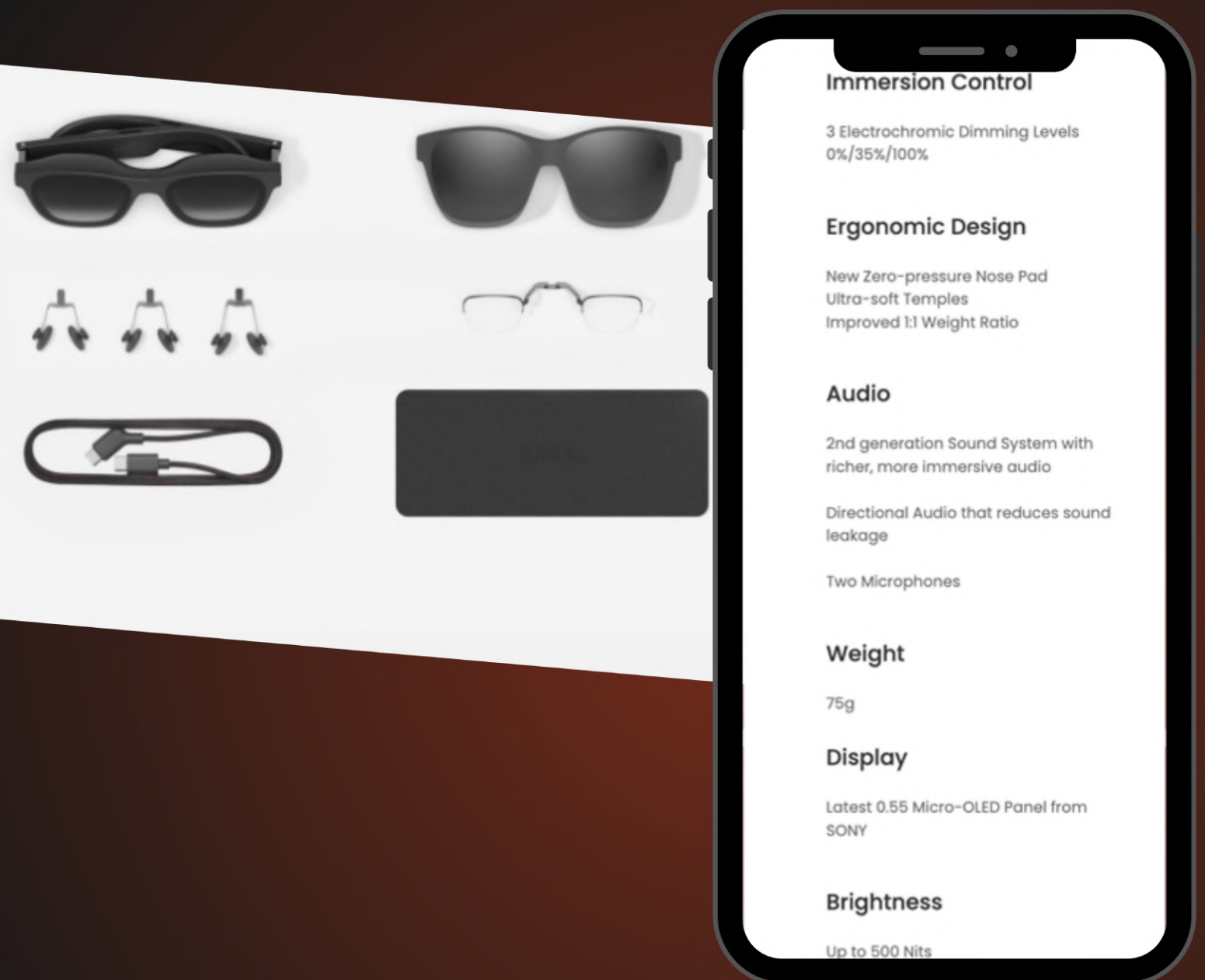
Smart glasses is basically a technologically advanced pair of glasses that offer futuristic features than the average typical glasses which is mainly used to aid vision. Smart glasses has the capability to connect to the internet as well as the added feature of the 'Augmented Reality' technology. Through this technology, the user can scan through tons of information by using voice control or haptic feedback which can be found on the side of the glasses for manual operation. Some more advanced smart glasses can even search or interact with information using hand or body gesture.

The uses of smart glasses is endless, with its capability of being connected to the internet and with its built in camera, speaker as well microphone, it can provide user with easy and limitless access to all sorts of information. For example if user look at an item, the smart glasses will display list of information of the item. It also can provide user navigation, store information, automatically tinted the glass to block the sunray and so on.



The future usage of smart glasses will be beneficial for people with any job scope as it can help provide a wealth of information when doing tasks or research. The downside of smart glasses is that it raises privacy concerns. Smart glasses with its capability to get information can lead to invasion of privacy as other individuals can be recorded without their knowledge or consent. It may also have an impact on the health and safety of the user. With the usage of Augmented Reality it becomes a distraction to the user itself when walking or driving as it may lead to delays in reaction time. It may also give eye strain to the user as it is similar to looking at a screen for an extended period of time. Also since the smart glasses is still in its development phase, smart glasses have limited operation time and will require frequent charging, in addition to its bulky size which makes it less attractive.

The first smart glasses was created by Google back in 2011 called 'Google Glass' or 'Glass'. It was available in the market in 2014 with a price tag of \$1,500.00USD. However it was discontinued in 2017 due to its high price point but it was still in its development stage and was not made for the average consumer. A more recent example of one of the popular smart glasses in 2023 is the 'Air AR glasses' developed by Xreal. It is one of the best overall smart glasses that provides users with lots of features and it is priced at only USD \$380.00.



Immersion Control

3 Electrochromic Dimming Levels
0%/35%/100%

Ergonomic Design

New Zero-pressure Nose Pad
Ultra-soft Temples
Improved 1:1 Weight Ratio

Audio

2nd generation Sound System with
richer, more immersive audio

Directional Audio that reduces sound
leakage

Two Microphones

Weight

75g

Display

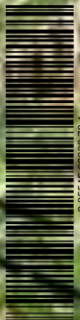
Latest 0.55 Micro-OLED Panel from
SONY

Brightness

Up to 500 Nits

BORNEO

100 MILER



TRAIL



RUNNING

By Lt (U) Qawie



WO2 (U) Azrul Muzri Bin Hj Adnan, a Regimental Quartermaster from No. 2 Wing by trade, also an avid trail runner had participated and finished the Ultra Trail Borneo 100 miler run. The qualification for a 100 miler Ultra Run was based on the annual qualifying schedule for 2 years or Ultra Trail 50km and 100km run experiences performance. Throughout his time he had managed to complete the 50km BUTM Ultra Trail, 60KM Ultra Trail Kedamaian Adventure Race (KAR), 90km Ultra Trail Four Feather, 50km & 70km Ultra Marathon Kuching (KU), 100km TMBT Ultra Trail, 50km SIMPUR Ultra Trail 2023 (GM – Grandmaster Asia), 100km BUTM Ultra Trail as well as the latest Borneo 100 Miler 2023 (GM – Grandmaster Asia). With this impressive record he hopes gain international points such as the ITRA (international trail running association), UTMB qualifier (Ultra Trail Du Mont Blanc- FRANCE) and Grandmaster (Asia Trail Master) in order to qualify for the annual UTMB MONT BLANC competition and Grandmaster Asia Hall Of Fame.

“THE RACE DOESN'T START ON RACE DAY. THE PREPARATION, TRAINING AND CONDITIONING HAS TO BE DONE MONTHS IN ADVANCE”

His first step has already been made when he entered the qualifying competition with the help of sponsors from family and friends to participate in the Borneo 100 Miler 2023 which took place in Kota Belud, Sabah from 03 June 2023 and completed the race within 3 days and making the cut-off-time of 54 hours. The competition started on 03 June 2023 at 0600 in the morning and during the competition he faced various obstacles such as the hot weather, frequent rain and even some fields which were on fire. The overall height elevation culminated during the race was 5850m and this was time with a time record of 51 hours. He, along with 5 other members from Brunei was able to complete and achieve this feat. With this they all collected Grandmaster Asia points for the second time and at the same time qualified to enter the UTMB Competition (France) with a registration period until 2025.

For the next trip he aims to collect Grandmaster Asia points which has to be accumulated for six times to grant entry into the HALL OF FAME MASTER TRAIL ASIA. His main motivation is his passion for long distance running as well as to create memories, history and to represent Brunei Darussalam at the international stage. Although he faces challenges to continue maintaining participation, this does not dim his spirits as he continues to strive in the world of trail running.





KERIS TERBANG

