



# Vaibhav Tyagi

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## Summary

Result-oriented Ex-Naval Officer with 10 years of experience leading technical operations, executing complex projects, and managing cross-functional teams in high-stakes environments. Skilled in operations strategy, process optimization, and digital transformation, with a proven track record of driving outcomes through innovation and precision.

## Professional Experience

### Senior Technical Operations Manager, Helicopter Squadron | Indian Navy | Visakhapatnam

- Led a team of 140 personnel for successful commissioning of the first Sea King Squadron in Eastern Naval Command.
- Established supply chain logistics framework for the newly commissioned squadron, ensuring availability of critical spares and stores setup within 45 days.
- Ensured aircraft readiness for search and rescue mission during the Godavari floods in Aug 2024, saving 38 lives.
- Led performance management, capability development, and workforce planning for a cross-functional team of 180+ personnel, including two officers.
- Planned and implemented the maintenance cycle of squadron aircraft, achieving 81% average serviceability and 100% availability during peak operational periods.
- Improved logistics planning through real-time resource consumption analysis, reducing aircraft turnaround time and enabling faster mission readiness.
- Evaluated asset deployment and workforce allocation strategies across verticals, leading to improved task distribution and a 12% increase in maintenance efficiency.
- Led end-to-end logistics, servicing, and deployment planning from a detached location during Navy Day 2024 celebrations; completed operations with zero mission delays.
- Digitized maintenance logs and launched personnel upskilling programs, enhancing servicing accuracy and reducing dependency on legacy methods.
- Secured classified data and IT assets by leading the setup of the squadron's Naval Communication Network, strengthening operational security and communication reliability.

### Technical Operations Manager, Shipborne Helicopter Flight | Indian Navy | Visakhapatnam

- Established a new Shipborne Helicopter Flight for Eastern Fleet; managed INR 2.5 Cr procurement cases for infrastructure and critical spares.
- Optimised maintenance processes, exceeding operational flying targets by 48% through improved aircraft readiness.
- Achieved highest fleet-wide serviceability of 72% by mentoring and leading a team of 25 sailors.
- Streamlined reuse of spares from non-moving inventory and decommissioned aircraft, generating savings of INR 10 Cr and reducing fleet downtime.
- Integrated Sea King operations with new-generation warships, expanding fleet coverage by 15%.
- Prepared aircraft for rescue missions and medical evacuations; engaged in multinational naval exercises with US, Japanese and French Navy.
- Completed a time-sensitive INR 60 Lakh upgrade project to augment aircraft cockpits with Night Vision Goggle compatibility.
- Upgraded the Flight's IT infrastructure through targeted procurement, enhancing communication speed and reliability across the unit.

### Technical Project Manager, Air Station | Indian Navy | Kochi

- Managed projects for overhaul of six aircraft and helicopter upgrades along HAL totalling INR 30 Cr+
- Delivered aircraft for UN mission on a tight deadline by leading end-to-end production and INR 1.5 Cr supply chain coordination amidst pandemic disruptions.
- Initiated infrastructure project for maiden setting up of the MH60R helicopter system testing workshop at Kochi.
- Directed torpedo system upgrades worth INR 2 Cr and led strategic radar upgrade project worth INR 4 Cr in collaboration with Israel Aerospace Industries.
- Designed and commissioned Avionics Test Facility for engine ignition systems; reduced component downtime by 15% and man-hours by 20%.
- Maintained operational efficiency of 55+ avionics test and repair benches across key aircraft systems.
- Developed the first IFF (Identification Friend or Foe) system test bench at the station; initiated a system serviceability contract with HAL worth INR 80 Lakhs.
- Spearheaded end-to-end project execution for setting up the MH60R helicopter repair and testing workshop; managed vendor coordination and infrastructure delivery under a maiden INR 1 Cr contract.

## Assistant Technical Operations Manager, Helicopter Squadron | Indian Navy | Kochi

- Led a 120-member technical team to maintain round-the-clock aircraft readiness during Kerala flood rescue operations and COVID-19 evacuations.
- Boosted aircraft serviceability by 15% through execution of key maintenance schedules and rectifications.
- Conducted successful weapon system trials for integrating anti-ship missiles on Sea King helicopters.
- Streamlined component survey and demand planning processes, resulting in top operational inspection ratings for spares logistics management.
- Implemented spare, oil consumption and defect tracking using data analytics, enabling performance monitoring and early defect prediction.
- Enhanced hangar safety through a fire protection revamp, zone-based FOD control and analysis, and audit-driven safety upgrades.

## Instructor/ Trainee Officer| Indian Navy | Indian Naval Academy/ Training Schools

- As an instructor, conducted C++ and Microprocessor classes for 150 trainee sailors.
- Successfully completed Electrical and Air Electrical Specialisation Course; graduating in the top 5% of the class
- Oversaw Quick Reaction Team operations; ensured perimeter security at a strategically critical naval base.
- Organized multiple cultural and sporting events; coordinated visits of dignitaries, ensuring seamless execution and protocol compliance.
- Undertook welfare projects focused on improving living conditions and beautifying the sailors' mess, enhancing morale and quality of life.
- Arranged industrial visits for 40 Indian and 12 international naval officers to aerospace companies and research labs.

## Education

**Master of Technology (Aeronautics)** – *Cochin University of Science and Technology, Kochi*

**Master of Science (Electronics and Telecommunication)** – *Cochin University of Science and Technology, Jamnagar*

**BE+MBA (Dual Degree- Electronics & Communication + Finance/ Marketing)** – *Panjab University, Chandigarh*

## Accomplishments and Awards

- Awarded the Entry Level Scholarship at IIM Ahmedabad for a distinguished profile and career achievements.
- Awarded by the Chief of Naval Staff for initiating tutoring classes for 35 school children in remotely located naval station.
- Designed an IoT-based hangar surveillance system, recognized by CNS for innovation in security tech; patent pending.
- Led setup of Eastern Naval Command's first Sea King Squadron, commissioning infrastructure, supply chain, and technical operations.
- Developed in-house oxygen concentrator to overcome oxygen cylinder shortages during COVID-19 pandemic.
- Delivered aircraft for UN peacekeeping mission by executing end-to-end production project.
- Implemented the first-ever personnel fatigue monitoring system in a naval squadron to improve work-life balance.
- Coordinated transportation logistics for Naval Chiefs from 26 countries during the Indian Ocean Naval Symposium.
- Reduced aircraft turnaround time by digitizing maintenance logs and implementing real-time consumption tracking.
- Participated in multinational exercises with the US, France, and Japanese Navies, enhancing interoperability and operational coordination.

## License & Certifications

- Data Analytics, Google Certification
- Lean Six Sigma Certification, Green Belt, KPMG
- Excel Skills for Business: Advanced, Macquarie University, Australia
- Statistics and Accounting, IIM Ahmedabad
- Air Logistics Management Course, Indian Navy
- Electrical Specialisation, Indian Navy
- Air Electrical Specialisation, Indian Navy
- Naval Weapons and Missile Technology, Military Institute of Technology

## Co/Extra-curricular

- Planned and organised the Navy Day Operations Demo-2024 at Puri, coordinating logistics, aircraft readiness, and execution.
- Organising member of Naval Flight Safety Meeting- 2024 at Visakhapatnam.
- Core team member for the 2019 Navy Day Operations Demo at Kochi, managing transportation and seating logistics.
- Organised the Navy Day Marathon- 2017 at Jamnagar, engaging 1500+ participants and local stakeholders.
- Participated in Intra-Command Squash Championship.
- Represented unit in Command Cross Country Championships.
- Participated in various Half Marathons organized by the Indian Navy.
- Represented Naval Unit Football team and college football team in Regional Competition.