SERVICES

- Vulnerability Assessment & Penetration Testing
- IT Security Audits Independent Verification & Validation
- Software Testing & Third-Party Audits
- Consultancies & Trainings

SOFTWARE-DRIVEN SOLUTIONS

- Electronic Voting Machines (EVMs)
- Digital Agriculture Solutions
- Radars, Underwater Systems
- Geographical Information Systems (GIS)
- Smart City Solutions & Integrations
- Electronic Warfare & Avionic Systems
- Access Control, Visitor Management,
- Video Management & Analytics Solutions

- Health Management & Information Systems
- Simulators, Chatbots, Computer-Based Trainings
- Artificial Intelligence Enabled Systems & Solutions
- Coastal Surveillance, Network Management Systems
- Weapons & Fire Control, Command & Control Systems
- E-Governance, Enterprise Resource Planning,
- Blockchain Solutions.

SOFTWARE STRENGTHS

- 1st Navratna Defence PSU CMMI-Dev 2.0 L5 & CERT-In Empanelment
- Usage of State-of-the-Art Tools & Technologies
- Adherence to Industry Standards & Best Practices
- Strong, Strategic, Managerial & Technical Competencies
- Integration of Sensors, Legacy Systems & Equipment
- Unified QMS with ISO 9001: 2015, IEEE 12207: 2008 & CMMI-Dev 2.0 L5
- Specialized - Project Management Professional, Software Architects,
- Developers & Testers, Quality & Security Auditors.

Bharat Electronics Limited

Software SBU Marketing

- Jalahalli, Bangalore-560013, India
- +91 (080) 22197637
- +91 (080) 22195979
- swmarketing@bel.co.in
- www.bel-india.in

BHARAT ELECTRONICS LIMITED (BEL) is Navratna PSU under the Ministry of Defence, Government of India. It manufactures state of the art electronics products and systems for Defence and Non defence Domains. Software solutions for these systems are realised using cutting edge tools and technologies at Software Strategic Business Unit.
SOFTWARE SBU with technically competent resources has been developing solutions for challenging operational environments. Software SBU is diversified into latest technology domains and also provides Software Assurance Services.

भारत इलेक्ट्रॉनिक्स
BHARAT ELECTRONICS

SOFTWARE DIVISION
PRODUCTS & SERVICES

"Driving Digital Transformation with Cutting-Edge Solutions."

Civilian Marketing
- +91 (011) 61326071-78
- cmktgdel@bel.co.in
- 8th Floor, Chanderlok Building, 36 Janpath, New Delhi-110001, India

National Marketing
- +91 (011) 61326004
- nmoff@bel.co.in
- Block Tower-II, 7th Floor, NBCC Complex, East Kidwai Nagar, New Delhi-110023, India

International Marketing
- +91 (011) 61326063
- imd@bel.co.in
- Block Tower-II, 7th Floor, NBCC Complex, East Kidwai Nagar, New Delhi-110023, India

DEFENCE EXPERTISE

FIRE CONTROL SYSTEMS
Computation of Gun Fire Control Solutions for firing of all ship-borne weapons, tracking the targets with high accuracy, Processing of Target data & controlling the weapons by placing into exact ballistic firing position for eventual destruction of targets. Software Solutions for Advance Towed Decoy System (ATDS).

COASTAL SURVEILLANCE SYSTEMS
CSS provides a holistic Maritime Surveillance scenario at Command and Control Centres through Regional Operating Centres (ROC), Remote operating Stations(ROS), Mobile Surveillance System(MSS) to detect, track, identify, monitor suspected threats. Major Software Modules include Record and Replay Software, Communication manager, Electro Optical Surveillance System, Data Management and System Health Monitoring.

ELECTRONIC WARFARE & AVIONICS SYSTEMS
Software for Operational Flight Programs (OS based, Bare-metal),Mission Planning software, ATP Software(Target and HOST), System Programming Software, Post Mission Data Analysis Software and Simulator software(MIL-1553B, ARINC-429 & RS-422 interface based).

COMMAND & CONTROL SYSTEMS
Artillery Combat Command and Control System(ACCCS) Software for automation of artillery operations such as Fire control, Fire Planning, Deployment Management, Operation Logistics. Software for Network Management Systems, Command and Control solutions for mobile operations in deserts, plains and High-Altitude terrain for Armored / Mechanized Infantry Units & Formation HQs. Efficient Message exchange and Tactical Data transfer solutions for Indian Navy operational platforms.

RADAR AND WEAPON SYSTEM
Software for Surveillance and Tracking Radars for Ground and Aerial targets, Multi Sensor Fusion, Weapon Command and Control Software, Highly configurable and generic display Software.

UNDERWATER SYSTEMS
Display Application Software Solutions for HUMSA-NG, the underwater sensor of surface ships for Anti Submarine Warfare (ASW) Operation, capable of detecting, locating, tracking and classifying all types of Sub surface targets.

AI SOLUTIONS

AIVAS - AI ENABLED VOICE ANALYSIS SOFTWARE
In-House developed AI enabled solution that facilities users to access voice analysis functionalities such as Voice activity detection, speaker identification, Language identification (for 100 Languages), key word spotting, continuous speech conversion, Speech Enhancement/ Audio Editing, Dialect Identification, Speaker Diarization, Voice transcription and translation for 8 Languages namely Arabic, Bhasha Indonesia, Bhasha Malaya, Burmese, Thai, Chinese Mandarin, Sinhala, Vietnamese.

SANDARBH.AI - AL BASED CHATBOT
A comprehensive chatbot solution for Indian Navy. It's a Interactive Document Module leveraging the potential of Large Language Models (LLMs) and Retrieval Argumentation Generation (RAG). It is trained on large database of Indian Navy & Hosted in Navy Domain.

ANTARBHASHI.AI
Automatically identifies language of Radio Intercepts and Translates identified language to English Text. Application is developed for translating Houthi, Arabic Radio intercepts. Its Deployed onboard naval warships.

ANANT - ADVERSARY NETWORK ANALYSIS TOOL
A flexible and extendable platform using advanced computational models and state-of-the-art visualization features to predict insights, analyze and create operational policies based on city infrastructure data.

PRASHIKSHAN.AI
The purpose of the project is to design an offline speech to speech, speech to text and text to text multilingual language translation solution catering for seven languages for foreign students studying in military training schools in Armed forces. Solution is Trained in Burmese, Vietnamese, Kazakh / Russian, French, Dhivehi, Sinhala, Bengali Languages.

AI Based Smart Ship Operations
Experience advanced maritime surveillance with AI-powered object classification, multi-target tracking, and intelligent threat detection.
Enhance safety, situational awareness, and mission efficiency with real-time data fusion and night-time IR capabilities.
Access critical insights anytime through a responsive, customizable dashboard for seamless operational control.

SOFTWARE PRODUCTS

NETWORK MANAGEMENT SYSTEM (NMS)
A hierarchical, distributed architecture that integrates open standards and GIS, providing FCAPS functionality. It offers a unified dynamic dashboard for real-time monitoring, customizable inventory management, and resource lifecycle tracking. Seamlessly integrating with mailing, messaging, helpdesk, and directory services, it performs event correlation and root cause analysis of network events.

EQUINOX - SMART CITY / TOWN / COLONY SOLUTIONS
A scalable, cloud-deployable IoT platform developed on open standards. Equipped with Big Data, AI-ML engines, and connectivity to city sources, Equinox provides integrated operations with command and control, IoT sensor integration, data analytics, and visualization, enabling a unified Common Operating Picture for smarter city management.

DRISHTI - VIDEO MANAGEMENT & VIDEO ANALYTICS
Supports both IP and analog cameras, this solution optimizes video security operations by offering policy-based video distribution, investigation management, and AI-powered video analytics for applications such as face recognition, camera tampering, intrusion detection, license plate recognition, and forensic analysis.

ENTERPRISE RESOURCE PLANNING (ERP)
An open-source ERP solution that integrates core business processes such as finance, HR, and inventory management, offering automated processes, real-time insights, and internal controls. It can be deployed on-premise or in the cloud, customized for SAP or other systems.`

BLOCKCHAIN SOLUTIONS
Revolutionary blockchain solutions designed for secure, tamper-proof digital document issuance and secure asset transfer and tracking across organizations or industries, ensuring data integrity and transparency.

E-GOVERNANCE SOLUTIONS
A scalable, open-source portal providing seamless services for citizens, including trade licenses, property tax management, tax collection, payments, certificates, registrations, and more. The platform is accessible through both web and mobile applications.

HEALTH MANAGEMENT & INFORMATION SYSTEMS (HMIS)
A cloud-based, ABDM-integrated solution that supports role-based automated healthcare processes such as online appointments, billing, scheduling, smart queue management, and outpatient/inpatient management, providing a flexible, scalable, and secure interface.

EACS - ENTERPRISE ACCESS CONTROL SYSTEMS
A distributed 3-tier web-based solution that integrates smart card/biometric sensors with mail and SMS services. It provides quick authentication, verification, and problem resolution to ensure the safety and security of organizational work centers.

Electronic Voting Machine - Embedded Software Solutions
Software for Encrypted serial communication between the units, Mutual authentication between the units on every power-on using Public Key Cryptography, Print facility for various reports such as result, event log, hourly total etc, Self-diagnostics.

Innovative SOFTWARE SOLUTIONS
Driving Digital Transformation with Cutting-Edge Solutions.