



ENGINEERING FOR FUTURE INFRASTRUCTURE & BUILT TECHNOLOGIES

COMPANY PROFILE

Marine Engineering • Civil Engineering • Architectural • Mapping

"Your Backbone for Design & Engineering Delivery"

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NORTH AMERICA • EUROPE • MIDDLE EAST • INDIA • CANADA

ABOUT US

Effibit, Redefined

Effibit specializes in Marine Engineering, Civil Engineering, and Architectural design services, focusing on creating sustainable, efficient, and innovative structures across land and sea. Using cutting-edge technology, we provide comprehensive solutions covering the entire project lifecycle — from concept to construction.

Our expertise in Building Information Modeling (BIM) enables us to produce detailed 3D models, ensuring effective planning and execution. Our team of architects, engineers, and designers collaborate to optimize performance, sustainability, and aesthetics.

We integrate the latest design technologies with sustainable practices, exceeding industry standards for energy efficiency and environmental impact. By visualizing projects early, we minimize risks and enhance collaboration, delivering functional, beautiful, and future-ready structures.

THE FOUNDERS

Gayatri CO-FOUNDER — ARCHITECTURE & DESIGN

With a degree in architecture and over a decade of hands-on experience, Gayatri brings a rare ability to craft spaces that are both visually striking and deeply practical. She leads the design vision at Effibit, ensuring every project balances aesthetics with real-world performance.

10+ YEARS EXPERIENCE

B.Arch ARCHITECTURE

Janak CO-FOUNDER — TECHNOLOGY & OPERATIONS

Janak brings 15 years of IT expertise paired with a finance background, giving Effibit a sharp operational edge. He drives the technology strategy and ensures every workflow, tool, and process runs with precision and efficiency.

15+ YEARS EXPERIENCE

IT + Finance BACKGROUND

*"Together, we're changing the way people think about building technologies.
At Effibit, it's about creating solutions that truly make a difference."*

Marine Engineering Services

End-to-end marine engineering and naval architecture support — from hull modeling and structural detailing to class documentation and remote production capacity for shipyards and offshore projects worldwide.

HULL MODELING & FAIRING SUPPORT

3D hull modeling (NURBS-based), hull fairing, lines plan refinement, offset tables, hydrostatic data generation.

MARINE DRAFTING & PRODUCTION DRAWINGS

GA drawings, structural drawings, outfitting layouts, fabrication drawings, redline updates.

STRUCTURAL DETAILING & SHOP DRAWINGS

Hull structural detailing, plate development, nesting, weld maps, CNC-ready production drawings.

STABILITY & HYDROSTATICS SUPPORT

Hydrostatics calculations, stability booklets, load case development, trim/draft analysis.

BIM / 3D COORDINATION FOR MARINE & OFFSHORE

3D model coordination, clash detection, shipyard integration, digital twin support.

CLASS & REGULATORY DOCUMENTATION

Drawings for class submission, IMO compliance, plan approval packages, revision handling.

RETROFITTING & AS-BUILT DOCUMENTATION

As-built drawings, vessel modification docs, legacy digitization, reverse engineering.

REMOTE ENGINEERING SUPPORT

Dedicated teams, overflow support, deadline-driven delivery, time-zone advantage.

Civil Engineering Services

Comprehensive civil engineering production support — from drafting and quantity take-offs to Civil 3D modeling and tender documentation.

CIVIL DRAFTING & CONSTRUCTION DRAWINGS

Plan, profile, section drawings, site grading, road/drainage layouts, GFC drawings.

QUANTITY TAKE-OFFS & BOQ SUPPORT

Quantity take-offs, earthwork calculations, BOQs, material take-offs, tender support.

BIM & CIVIL 3D MODELING

Civil 3D modeling for roads, corridors, grading, utility modeling, clash detection.

DESIGN DEVELOPMENT SUPPORT

Concept to detail, road cross-sections, drainage detailing, utility coordination.

SHOP DRAWINGS & EXECUTION DETAILING

RCC detailing, Bar Bending Schedules, shop drawings, setting-out drawings.

AS-BUILT & DOCUMENTATION DIGITIZATION

As-built drawings, CAD conversion, legacy digitization, standardization.

PROJECT DOCUMENTATION & TENDER SUPPORT

Tender packages, technical specs, DPR support, formatting & standardization.

REMOTE ENGINEERING SUPPORT

Dedicated teams, parallel project support, deadline-driven, time-zone advantage.

Architectural Services

End-to-end architectural production support — from BIM modeling and construction documentation to 3D visualization and remote project capacity.

BIM MODELING & COORDINATION

LOD 100-500, clash detection, model auditing, coordination models, Scan-to-BIM.

ARCHITECTURAL DRAFTING & WORKING DRAWINGS

CAD drafting, GFC drawings, joinery details, as-built drawings, redline updates.

CONSTRUCTION DOCUMENTATION SUPPORT

Tender/GFC drawing sets, BOQs, technical specifications, standardization.

3D VISUALIZATION & PRESENTATION

Photorealistic renders, walkthroughs, animations, presentation boards, competition visuals.

DESIGN DEVELOPMENT SUPPORT

Concept to detail, facade detailing, MEP coordination, code compliance.

SHOP DRAWINGS & DETAILING

Facade/interior/joinery shop drawings, fabrication drawings, contractor coordination.

AS-BUILT & DOCUMENTATION DIGITIZATION

Scan-to-CAD, Scan-to-BIM, legacy digitization, documentation cleanup.

REMOTE PROJECT SUPPORT

Dedicated teams, competition support, deadline-driven, time-zone advantage.

Mapping Services

Precision survey data processing, LiDAR scanning, GIS mapping, and drone survey support — serving architects, civil engineers, marine firms, and survey consultants worldwide.

LIDAR SCANNING & POINT CLOUD PROCESSING

Terrestrial/mobile LiDAR, point cloud cleaning, Scan-to-CAD/BIM, segmentation.

ARCHITECTURAL SURVEY & AS-BUILT DOCS

Measured building surveys, interior/facade documentation, renovation-ready docs.

CIVIL & INFRASTRUCTURE SURVEY SUPPORT

Topographic surveys, terrain modeling, utility mapping, Civil 3D conversion.

MARINE & OFFSHORE SURVEY SUPPORT

Vessel scanning, engine room data processing, as-built for retrofits.

GIS MAPPING & SPATIAL DATA

GIS data creation, spatial analysis, infrastructure planning, map visualization.

DRONE SURVEY DATA PROCESSING

Photogrammetry, orthomosaics, 3D terrain models, volume calculations.

DATA CONVERSION & STANDARDIZATION

Raw data conversion, CAD/BIM/GIS standardization, legacy digitization.

REMOTE SURVEY PROCESSING

Dedicated data processing teams, fast turnaround, overflow support.

TECHNOLOGY

Software Toolkit

AutoCAD • Revit • ArchiCAD • ReCap • Navis Works • AVEVA • Tekla • STAAD Pro • ETABS • ANSYS • SketchUp + VRay • 3DS Max • SolidWorks • Prokon • Grasshopper • Rhino • Lumion • SACS • MOSES • Civil 3D • InfraWorks • HEC-RAS • SAFE

STANDARDS & COMPLIANCE

Built to International Standards

- ✓ BIM Level 2 Compliant
 - ✓ ISO 19650 Aligned
 - ✓ LEED & BREEAM Aware
 - ✓ PAS 1192 Framework
 - ✓ IFC & COBie Standards
 - ✓ GDPR Compliant
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ENGAGEMENT

How We Work

- Project-Based** Fixed scope, clear milestones, fixed price.
 - Hourly / Time & Material** Pay for hours worked, full transparency.
 - Dedicated Team / Retainer** Monthly retainer, guaranteed availability.
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TRUST & OPERATIONS

- ✓ Multi-Timezone Coverage (North America, Europe, Middle East)
- ✓ Confidentiality & NDA for every engagement
- ✓ Secure File Exchange (BIM 360, SharePoint, Procore)
- ✓ Dedicated Project Manager & Weekly Reporting

GET IN TOUCH

Let's Build Something Great Together

Share your project details and get a free consultation within 24 hours.



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