

Helios Trading and Consulting

HELIOS TRADING AND CONSULTING is an independent venture of GAUBLYS INTEGRATED INITIATIVES INTERNATIONAL PVT LTD, a diversified company focused on education and technology. With strategic partnerships, HELIOS offers engineering, consulting, and skilled manpower services, as well as trading of electrical items and personal protective



Diversified Services



Engineering and Consulting Services

HELIOS offers a comprehensive range of engineering & Consulting services to meet diverse project needs.



HTC Digital

HTC Digital provides cutting-edge digital marketing solutions to help SMEs thrive in the online world. Our services include website design, SEO, social media management, email marketing, and more. We leverage the latest technologies and data-driven strategies to drive results for our clients.



Skilled Manpower

We supply highly skilled professionals to support projects from start to finish.



Trading Solutions

HELIOS trades in electrical items and personal protective equipment to meet client needs.

Strategic Partnerships

Leveraging Expertise

Through strategic partnerships, HELIOS leverages the expertise and resources of its parent company to deliver innovative solutions.

Collaborative Approach

Our partnerships enable us to offer a wider range of services and solutions to our clients.

Industry Connections

Strategic alliances help us stay at the forefront of industry trends and technologies.

Independent Venture

1 Autonomy

HELIOS is an independent venture, allowing for agile decision-making and tailored solutions.

2 Parent Company Support

As part of GAUBLYS INTEGRATED INITIATIVES INTERNATIONAL PVT LTD, we benefit from a strong foundation in education and technology.

3 Focused Approach

Our independence enables us to focus on delivering specialized services in engineering, consulting, and trading.

From The CEO's Desk

Biswadeep Ghosh, CEO and Founder, holds an MBA from Cranfield School of Management, UK, and a B.Tech in Electrical and Electronics from M.I.T Manipal, India. He has received training in 'Transformational Leadership' at the London School of Economics, UK, and brings over 25+ years of experience in sales, marketing, and profit center management across diverse engineering sectors in India, U.A.E, UK and Qatar.

CEO's Vision

"At Helios, we pride ourselves on delivering exceptional engineering services, trading solutions, consulting expertise, and skilled manpower supply. Our commitment to innovation, quality, and customer satisfaction drives us to exceed expectations in every project."





Engineering & Consulting Studies and Services Overview

This document outlines our offer of a comprehensive range of engineering studies using specialized software and other engineering services. It covers various aspects including electrical analysis, real-time simulation, network control systems, and engineering services across multiple disciplines.



Our Services: Design and Studies

1 Cutting-edge Technology

Leveraging cutting-edge technology and industry best practices, we provide robust design solutions.

2 Thorough Studies

We conduct thorough studies to ensure project success.

3 Innovative Solutions

Our team is committed to delivering innovative and effective engineering solutions.

Calculations and Consultancy Services

Complex Calculations

Our team excels in performing complex calculations, ensuring accuracy and reliability in every aspect of your project.

Expert Consultancy

From project inception to completion, we offer expert consultancy services to guide you through every stage of the engineering process.



Our Team

1 Industry Veterans


Our team comprises industry veterans and technical experts, bringing a wealth of knowledge and experience to every project.

2 Commitment to Excellence

With a commitment to excellence and a passion for innovation, our team is dedicated to delivering outstanding results that exceed expectations.

3 Innovative Thinking

We bring a blend of technical expertise and innovative thinking to deliver tailored solutions that meet the unique requirements of each project.



ETAP Studies for Electrical Analysis

1

Relay Coordination Study

Utilizing ETAP software to analyze and optimize relay coordination in electrical systems.

2

Short Circuit Analysis

Conducting short circuit analysis to assess system performance under fault conditions.

3

Load Flow Analysis

Performing load flow analysis to evaluate power system operation and efficiency.

4

Arc Flash Study

Carrying out arc flash studies to ensure safety and compliance in electrical installations.



Advanced Software for Electrical Analysis

1 HOMER Software

Specialized software for comprehensive electrical analysis and system optimization.

2 I-HOGA Software

Advanced tool for hybrid renewable energy system design and analysis.

3 DigSilent Power Factory

Powerful software for power system analysis and grid integration studies.

Real-Time Simulation and Control



Real-Time Simulators

We employ advanced real-time simulators including: Opal-RT OP4510, Opal-RT OP4520, Opal-RT OP8662, PV Emulator, Wind (PMSM, DFIG) Emulator, Battery Inverter Emulator, and Grid Simulator.



Control Logic Prototyping

For control logic prototyping, we use: DSPACE ACE Microlab Box (1302T)



Networked Control Systems

Our capabilities include: Test bench with Distributed Network Analyzer, Static Relays and Static VAR Compensator

Specialized Engineering Software Studies

HVDC Tower Design

Using PLS-CADD software for designing HVDC towers.

Water Network Surge Analysis

Employing Bentley Hammer Software for surge analysis in water networks.

Steam Network Stress Analysis

Utilizing CAESAR II software for stress analysis in steam or hot water networks.

CFD Analysis

Conducting Computational Fluid Dynamics analysis using ANSYS Fluent Software, COMSOL Multiphysics, and Open FOAM for 3D model analysis of ESP, cooling towers, pump forbays, and other systems.



Additional Engineering Studies and Analyses

1 Green Energy Cost Analysis

Solar, Wind, Water, Micro Nuclear reactor using Homar Software

2 System Calculations

Pressure drop calculations and pipe sizing

3 3D Development

3D development of buildings, equipment, and P&ID-3D Full-scale model development

4 Specialized Studies

Feasibility studies and HACCP (Hazard Analysis and Critical Control Points) Study



Engineering Services and Site Surveys

1 Comprehensive Site Surveys

Site surveys and report generation for Electrical, Process, Piping, Mechanical, HVDC, HVAC, and Instrumentation requirements

3 Specialized Services

Specialized services in Electrical & Instrumentation (E&I), Mechanical, Piping, High Voltage Direct Current (HVDC), and Heating, Ventilation, and Air Conditioning (HVAC)

2 Brownfield Projects

Expertise in delivering small-scale and limited-scope brownfield engineering projects across various disciplines



Our Projects



Oil and Gas

We have delivered innovative engineering solutions for complex oil and gas projects, leveraging our expertise in electrical, instrumentation, mechanical, and piping disciplines.



Petrochemicals

Our team has successfully executed projects in the petrochemicals sector, providing comprehensive engineering services to optimize processes and ensure safety and efficiency.



Power Generation

We have contributed to the development of power generation projects, leveraging our expertise in electrical, mechanical, and control systems to deliver reliable and sustainable solutions.



Manufacturing

Our engineering capabilities have enabled us to support various manufacturing industries, optimizing processes, improving productivity, and ensuring compliance with industry standards.

Our Consultants

Dr. Nirmalendu Biswas

Dr. Nirmalendu Biswas is an Assistant Professor at Jadavpur University with over 10 years of experience in design, engineering, and R&D projects in the steel sector. He has a Ph.D. in Mechanical Engineering and has worked on a wide range of projects, from developing new steel alloys to optimizing manufacturing processes. Dr. Biswas is known for his innovative thinking and his ability to solve complex engineering problems.

Dr. Bhimsen Tudu

Dr. Bhimsen Tudu is an Associate Professor in Power Engineering with extensive experience in teaching, research, and industry. He has a Ph.D. in Engineering and has published 47 research papers. His expertise includes electrical system design and renewable energy projects. He is also recognized with a Best Paper Award..

Amitava Majumder

Amitava Mazumder is a seasoned engineer specializing in microprocessor-based instrumentation and control systems with 17 years of experience. He holds a Bachelor of Instrumentation Engineering and a PG Diploma in Management. His expertise includes specification preparation, tender evaluation, and vendor drawing review for major power and process plant projects in India and abroad.

Our Consultants

Rabindranath Biswas

Rabindranath Biswas is an experienced Piping Design Engineer with over 30 years of experience in Engineering Plant System Design. He has worked on numerous projects in the petrochemical, power, and manufacturing industries, and is known for his attention to detail and his ability to deliver high-quality designs. Rabindranath has a deep understanding of piping systems and their role in the overall success of a project.

Sanjoy Roy Gosthipaty

Sanjoy Roy Gosthipaty is a seasoned piping engineer with 30 years of experience in various engineering fields, including power, chemicals, petrochemicals, and more. He is known for his expertise in designing and optimizing piping systems, and his ability to work collaboratively with other members of the engineering team. Sanjoy has a deep understanding of industry regulations and best practices, and is often called upon to provide guidance and mentorship to younger engineers.

Trading Of Essential Personal Protective Equipment (PPE)



Steel Toed Safety Shoes

Robust footwear with reinforced toe caps to protect workers' feet from falling objects and heavy impacts on construction sites.



High-Visibility Vest & Coveralls

Brightly colored vests and coveralls with reflective strips enhance worker visibility, reducing collision risks on job sites.



Safety Goggles

Protective eyewear shields the eyes from flying particles, dust, and other hazards encountered during construction activities.

Electrical Items Trading



MCBs, ELCBs, MCCBs, ACBs

We trade a wide range of essential electrical components like circuit breakers, relays, and panel accessories from reputed manufacturers.



PLCs and VFDs

Our trading portfolio also includes programmable logic controllers and variable frequency drives for advanced electrical systems and automation.



Panel Accessories

In addition to core electrical items, we also supply a comprehensive range of panel accessories to support the installation and maintenance of electrical systems.



HTC Digital

HTC Digital is your full-service digital marketing partner. We empower businesses to harness the transformative power of digital strategies. Our comprehensive suite of services is designed to elevate your online presence and drive measurable results. In addition to our digital services, we also provide graphic design, printing, and physical marketing solutions like glow signs ,LED boards , digital billboards etc.



Whether you're looking to increase brand awareness, generate leads, or drive e-commerce sales, HTC Digital has the tools and expertise to help you succeed

Comprehensive Digital Marketing Services



SEO

Boost your search rankings and organic traffic with our data-driven SEO strategies.



Social Media

Engage your audience and build brand loyalty through targeted social media campaigns.



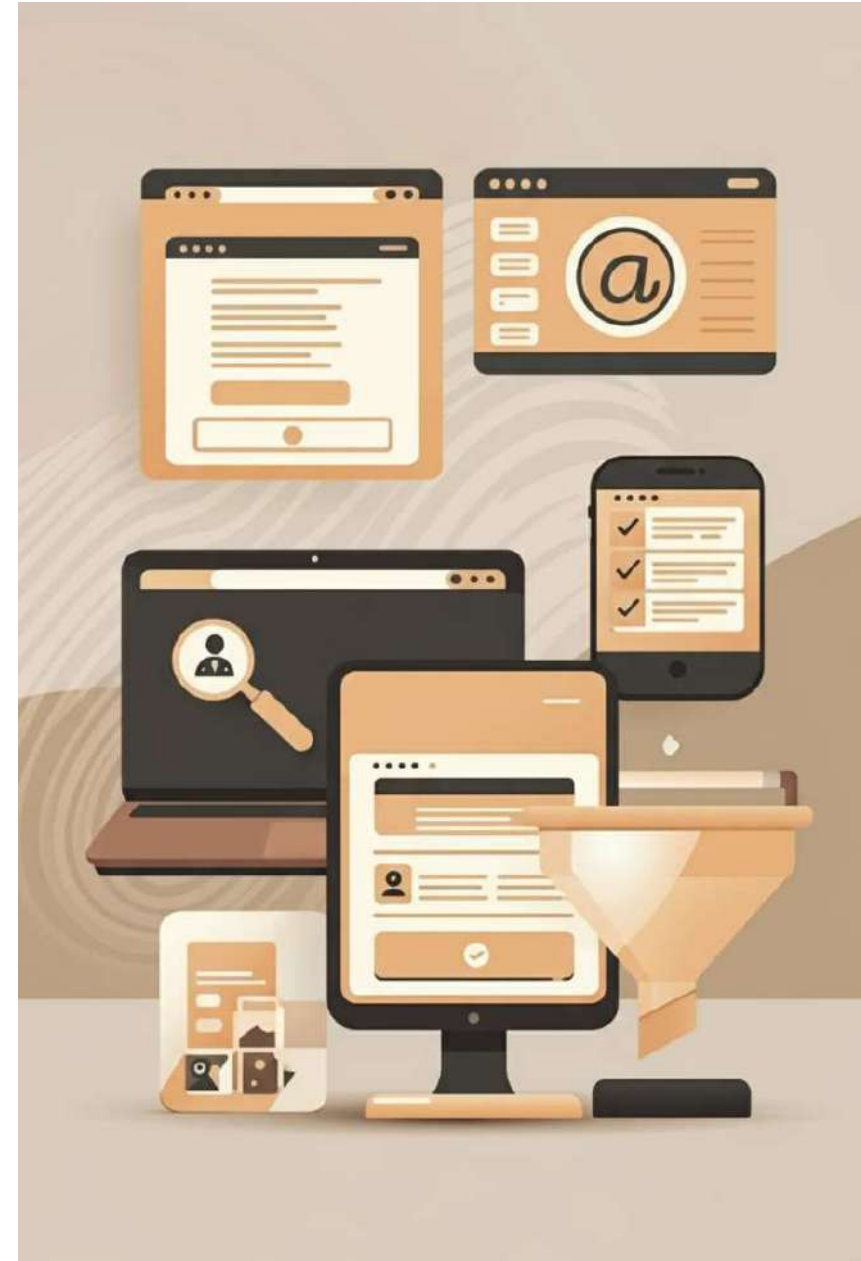
Web Design

Create stunning, user-friendly websites that convert visitors into customers.



Content Creation

Craft compelling content that resonates with your target audience and drives action.





Data-Driven Approach for Maximum Impact

- 1** — **Analyze**
We dive deep into your data to understand your audience and market positioning.
- 2** — **Strategize**
Our experts develop tailored strategies aligned with your specific business goals.
- 3** — **Implement**
We execute campaigns across multiple channels for maximum reach and engagement.
- 4** — **Optimize**
Continuous monitoring and refinement ensure optimal performance and ROI.

Integrated Marketing Solutions



Multi-Channel Approach

We understand the power of a multi-channel approach.

Our team seamlessly integrates physical marketing solutions with your digital strategies.



Compelling Visuals

We leverage cutting-edge graphic design to create compelling visuals that capture attention and drive conversions.



Cohesive Brand Experience

From print advertising and billboards to social media campaigns and influencer partnerships, we strategically orchestrate a cohesive brand experience across all touchpoints.



Data-Driven Decision Making

This integrated approach ensures a consistent brand message, maximizes reach, and amplifies your overall marketing impact. We prioritize data-driven decision-making, analyzing campaign performance and tailoring our strategies for continuous improvement.

Integrated Marketing Solutions



Digital Marketing

Comprehensive online strategies to boost your digital presence and drive growth.

- SEO and PPC
- Social media management
- Email marketing



Graphic Design

Eye-catching visuals that communicate your brand message .

- Logo design effectively
- Brand identity
- Marketing collateral



Physical Marketing

Innovative offline solutions to complement your digital efforts.

- Glow signs
- LED boards
- Digital billboards

Physical Marketing



Glow Signs

Eye-catching glow signs draw attention and create a memorable brand experience.



LED Boards

LED boards offer dynamic, high-impact messaging with clear, impactful visuals.



Digital Billboards

Digital billboards offer dynamic and engaging advertising with captivating imagery.



Flex Printing

High-quality flex printing offers a cost-effective and versatile solution for banners, posters, and signage.



ACP Boards with Acrylic Letter Cutting

ACP boards provide a durable and visually appealing surface for signage, while acrylic letter cutting adds a sophisticated touch.



Vinyl Printing

Vinyl printing is a versatile option for decals, stickers, and signage, offering durability and vibrant colors.



Brochure & Leaflet Printing

High-quality brochure and leaflet printing for effective communication and brand promotion.



Corporate Gifts

Personalized gifts to strengthen client relationships and boost brand awareness.

Partner with HTC Digital for Success

Expertise

Our team of seasoned professionals brings years of experience across various industries.

Innovation

We stay ahead of the curve, leveraging the latest technologies and trends.

Results-Driven

Our focus is on delivering measurable outcomes that impact your bottom line.

Partnership

We work closely with you, becoming an extension of your team.



Our Esteemed Clients

1.Kangaroo Kids International Preschool - Topsia,Kolkata

2.Kangaroo Kids International Preschool - Survey Park.

3.Interglobe Facility Services ,Santoshpur

4.Z4 Dancing Network ,Hiland Park

5.Sanjeeva Garden - Rajarhat

6.WAH Kolkata

7.Pizza Hut

Display Board



Display Board



Thank
you



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