QANTUR TECHNOLOGIES

INNOVATION THROUGH SIMULATION

Corporate Overview

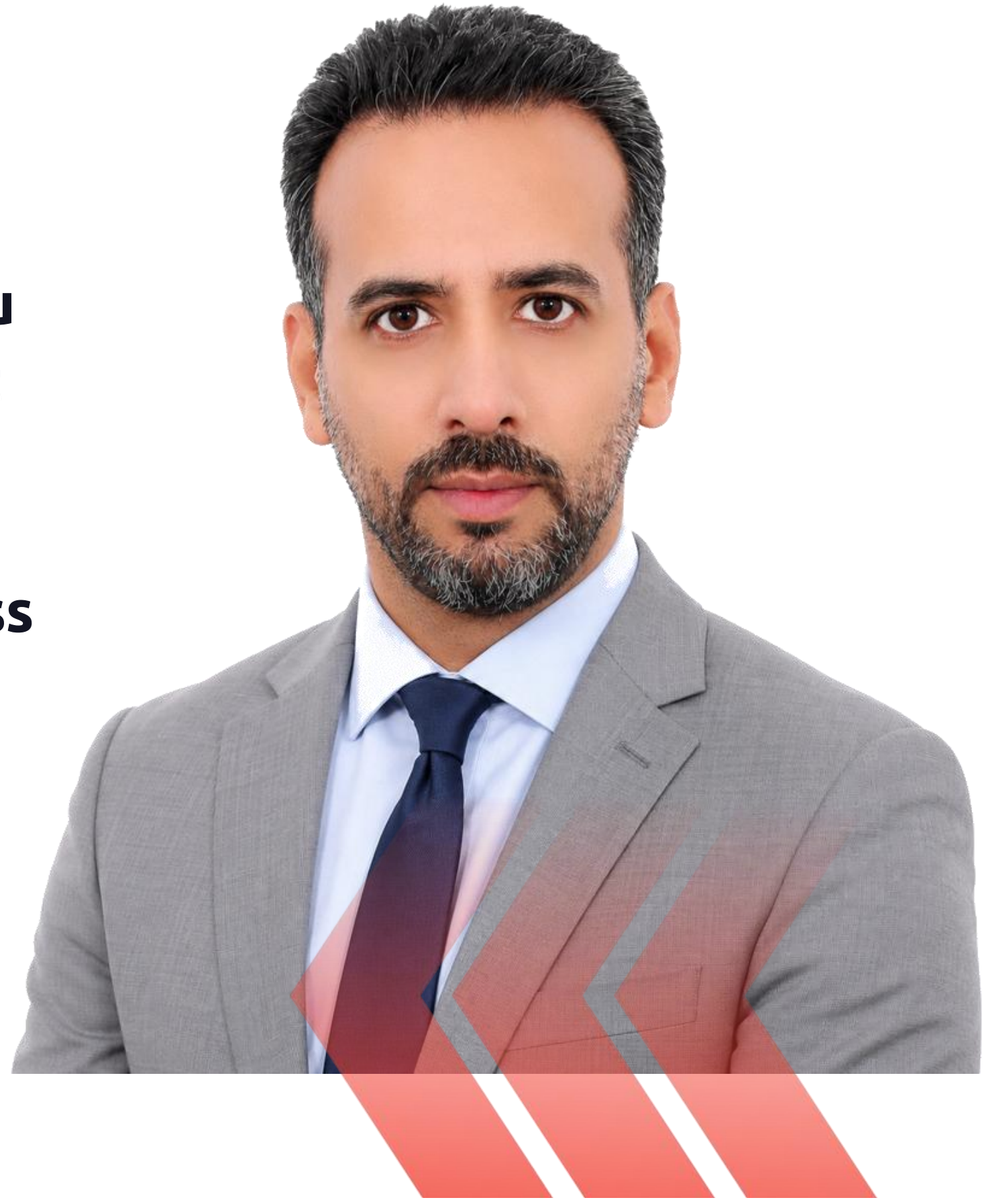


We offer Powerful Modelling & Simulation products & Services combination that allows you to address key simulation needs for our Product Development & Optimization Processes.

Our journey together is more than just a business transaction; it's a partnership founded on trust, integrity, and a shared vision for success.

We take this responsibility seriously.

- Irfan Ashai
Director



Company Overview

2017

1 Established with an idea of a strong simulation Partner

Ansys

2 Authorized Sales & Services Channel Partner

100+ Regional & Global

3 Established Customer Base

9.2

4 High customer rating for implementation, support & services

Locations

5 Noida, Bengaluru, Dubai, Bangladesh (Partner Presence)

20+

6 Full-time Team Members

Technical Strength

7 Certified Engineers

Engineering Services

8 Global Projects

Industries We Serve at Qantur Technologies

Explore the diverse sectors benefiting from our expertise

Aerospace

Providing advanced solutions for aircraft design and manufacturing.

Hi-Tech

Driving innovation in high-tech industries with tailored engineering services.

Defense

Supporting defense technologies with innovative engineering services.

Healthcare

Improving healthcare systems with technology integration and support.

Automotive

Enhancing vehicle performance and safety through cutting-edge technologies.

Industrial Equipment

Supplying robust equipment solutions for various industrial applications.

Construction

Delivering construction management solutions for efficient project execution.

Energy

Innovating sustainable energy solutions to meet growing demands.

Consumer Durables

Creating durable products that meet consumer needs with quality assurance.

Academics

Partnering with educational institutions for research and development projects.

Our Clients


DREAM
AEROSPACE


KHATIB & ALAMI


Envirotech
SYSTEMS


STAHL
CraneSystems


SUJATA


optio
marine


KEO
كيو انترناشيونال كونسلتنس
KEO International Consultants


DCM SHRIRAM
Growing with trust


S&O
MARITIME


Simactricals


SYSTRA




Elin
एलिन


EndureAir
Fly with Purpose!


FLOVEL
Advantage on your side


NTF
GROUP HOLDING


Shubham Pack


AUTO-LEK
A TRUSTED NAME
AUTO-LEK
ELECTRIC
HEART OF EV


zen
mobility


قطر للبترول
Qatar Petroleum


EULER


NIRMON
MARINE & OFFSHORE DESIGN


Temple


Bharat Flow
Analytics


FLOWMORE
Flow for life


IoTechWorld


NICOTRA Gebhardt


dar al-handasah
shair and partners


VAREL
ENERGY SOLUTIONS


P2P ANALYSIS
& SOLUTIONS
Solution with innovation


ABYOM


MACHFLY


MV ELECTROSYSTEMS LTD.


BILFINGER


FUSIE
ENGINEERS

Our Competitive Advantage

Multi-disciplinary Product Sales	Guided Product Implementation	Advance Training Programs	Licensing Support
Exceptional Engineering Product Support	Resource Support– QanturEdge	Engineering Services	Flexible Engagement Models

Our Composition

1

Modeling & Simulation

We offer Modeling & Simulation products & Services that allow you to Unlock Innovation and Maximize ROI.

2

Innovative Product

We offer a product that allows you to innovate your products and maximize ROI.

3

Partnership

Our journey together is more than just a business transaction; it's a partnership founded on trust.

4

Growth Contribution

We consider it our privilege to contribute to your growth and we take it seriously.

QANTUR TECHNOLOGIES



Our Commitment

Innovative Engineering Solutions

Qantur Technologies integrates cutting-edge technologies, ensuring forward-thinking approaches elevate project outcomes through continuous innovation.

Expert Advice on Collaboration

Our commitment to collaboration emphasizes collective expertise, leading to effective strategies and impactful engineering solutions.

Excellence in Support Services

Dedicated support services focus on enhancing clients' capabilities, delivering exceptional value through expert consultation and guidance.

Maximizing ROI Through our Engineering Expertise

Technical assistance guarantees investment success

Ensured Technical Support

Our dedicated technical support team is always available to address any issues quickly and effectively.

Customer-Centric Solutions

Tailored solutions designed around customer needs ensure maximum usability and effectiveness.

Investment in Expertise

By leveraging expert knowledge, we help you navigate challenges, enhancing your overall investment.

Training and Development

We provide ongoing training to help your team utilize the technology effectively, enhancing ROI.

Proactive Problem Solving

Our approach focuses on preventing issues before they arise, ensuring uninterrupted operations.

Data-Driven Insights

Utilizing analytics to inform decisions, we help optimize your investment strategies.

Regular Performance Reviews

We conduct regular assessments to measure the effectiveness of our support, driving continuous improvement.

Long-Term Support Commitment

Our commitment to long-term partnerships ensures your investments continue to yield results over time.

Compelling Value Proposition for Customers

Harnessing Technology and Relationships for Success

Cutting-edge Technology

Utilizing the latest technology enhances customer experience and efficiency.

Strong Relationships

Building and maintaining relationships fosters trust and loyalty among customers.

Assurance of ROI

Demonstrating clear returns on investment reassures customers of their financial decisions.

Exceptional Support

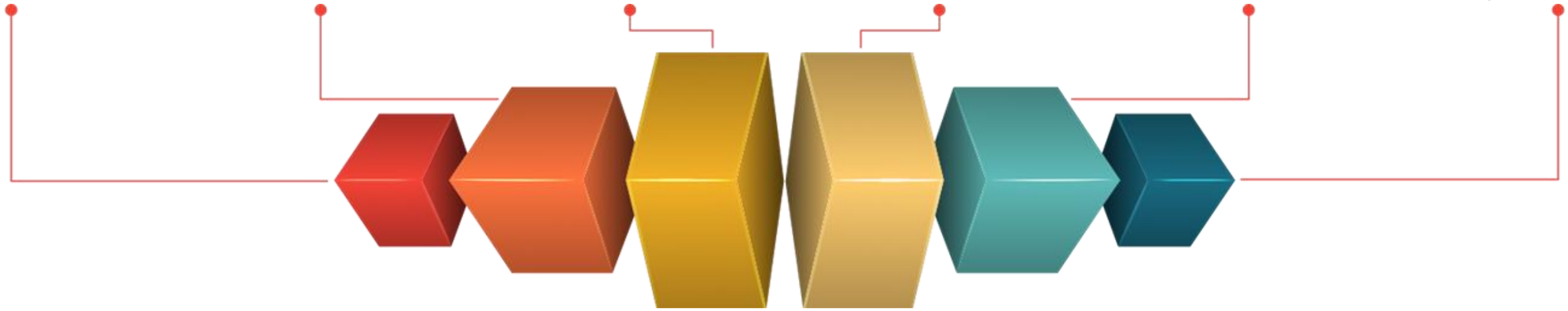
Providing outstanding customer support ensures satisfaction and long-term partnerships.

Pricing Assistance

Offering pricing assistance helps customers make informed purchasing decisions.

Technology Partner

As a technology partner, we deliver cutting-edge Multiphysics solutions & associated services that elevate your business performance.



Engineering Services Overview

Engineering Services Areas

1



Expert Engineering Advice

2



Technical Advisory

3



PoC as Service

4



Qantur ExtendEdge

5



Training

Expert Engineering Advice

Collaborative Execution

Qantur Technologies fosters collaboration, ensuring expert advice meets unique project benchmarking and performance needs.

Expert Guidance for Optimization

Offering specialized strategies, our services enhance performance optimization through advanced engineering methodologies and analysis.

Robust Knowledge Transfer

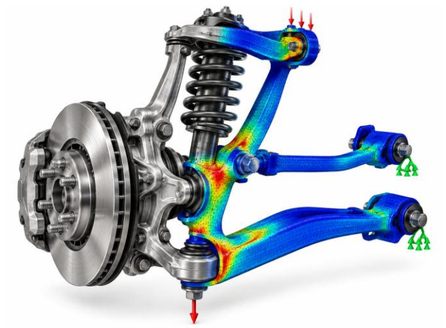
Our structured approach to knowledge transfer empowers clients, enhancing their capabilities through targeted training and resources.



Expert Engineering Advice Areas

1

Finite Element Analysis



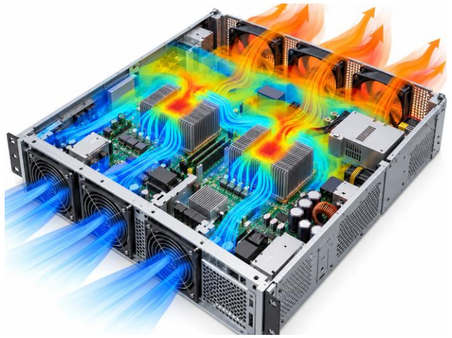
2

Computational Fluid Dynamics



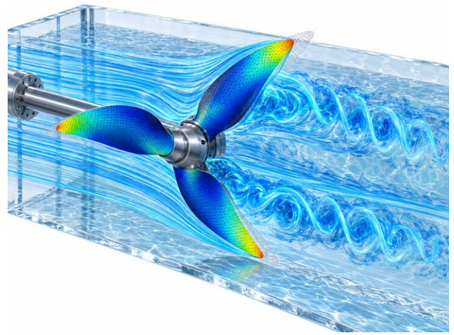
3

Electronic Cooling



4

Fluid Structure Interaction



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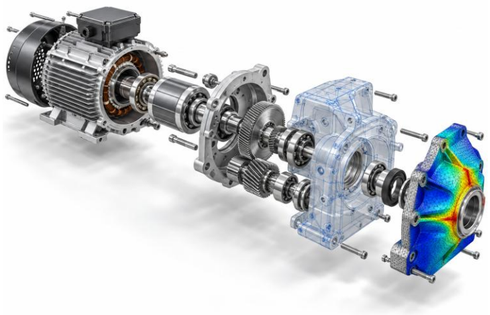
CAD



Comprehensive CFD Services

Explore Our Diverse Computational Fluid Dynamics Solutions

1

Steady State and Transient Simulations

We conduct both steady state and transient simulations for internal and external fluid flows.

2

Component Analysis and Design

Our services include the analysis, design, and optimization of various components in fluid systems.

3

Advanced Turbulence Modeling

Utilizing optimal turbulence modeling approaches including RANS, URANS, RSM, LES, and DES.

4

Flow Type Simulations

Expertise in simulating incompressible, compressible, subsonic, and transonic flows.

5

Rotating Equipment Analysis

Specialized in analyzing rotating equipment and moving bodies to enhance performance.

6

Heat Transfer and Thermal Modeling

We provide in-depth heat transfer and thermal modeling services for various applications.

7

Multiphase and Free Surface Flows

Simulation of multiphase systems and free surface flows to address complex fluid interactions.

8

Flow Mixing Analysis

We analyze flow mixing processes to optimize system performance and efficiency.

Comprehensive FEA Services

Explore Our Diverse FEA services

1

Basic Structural (Linear & Non-Linear)

We provide structural analysis for both linear and non-linear behavior, ensuring stability, performance, and reliability across various loading conditions and design scenarios.

2

Explicit Dynamics

We provide structural analysis for explicit dynamics, accurately simulating high-speed, transient events such as impacts, explosions, and crash scenarios to ensure performance and safety.

3

Advance Material Modeling

We provide advanced material modeling to accurately simulate complex material behaviors under various conditions.

4

Fatigue Analysis

We provide fatigue analysis to evaluate durability and predict failure under cyclic loading conditions.

5

Acoustics

Specialized in providing acoustics analysis to assess sound propagation, vibration, and noise control in various environments.

6

Vibrational Analysis

We provide in-depth vibrational analysis to evaluate structural responses to dynamic loads, ensuring stability and performance.

7

Rigid Body Dynamics

We provide rigid body dynamics analysis to simulate motion, forces, and interactions in mechanical systems.

8

Fracture Mechanics

We analyze fractures to assess crack propagation and material failure for improved structural integrity.

9

Thermal Analysis

We analyze thermal analysis to evaluate heat transfer, temperature distribution, and thermal stresses in various systems.

10

Composits

We analyze composite material to evaluate performance, strength, and durability under various loading conditions.



Proof of Concept (PoC) as a Service

1 Proof of Concept Overview

Facilitates businesses in validating simulation tools, effectively ensuring accuracy and reliability in engineering applications.

2 Consultation for Tailored Solutions

In-depth consultation empowers clients to develop bespoke solutions that address specific industry simulation challenges.

3 Execution and Industry Application

Practical execution of Ansys PoC service spans various industries, enhancing performance through validated simulation techniques.

Technical Advisory

1

Comprehensive Assessments

Qantur's Technical Advisory includes detailed evaluations assessing project needs and engineering constraints systematically.

2

Tailored Recommendations

Expert advisors generate specific, actionable recommendations focused on aligning with client operational goals effectively.

3

Strategic Roadmaps

Developing strategic roadmaps ensures systematic execution and resource optimization throughout the project's lifecycle.



Qantur ExtendEdge



Resource Outsourcing Model

Qantur ExtendEdge enhances R&D capabilities by providing flexible resource allocation tailored to project needs.

Engagement Framework

Our engagement model fosters seamless collaboration, ensuring dedicated expertise is aligned throughout the project lifecycle.

Comprehensive Support

We offer extensive support through seasoned professionals, facilitating knowledge transfer and optimizing R&D effectiveness.

Key Benefits of PoC



Risk-Free Exploration:

Our PoC service enables clients to assess innovations without commitment, minimizing potential project risks and failures.

Custom Solutions Development:

Tailored solutions cater to unique client requirements, enhancing adaptability and competitiveness in their engineering projects.

Expert Guidance Ensured:

Access to seasoned professionals guarantees strategic insights and informed decisions throughout the project lifecycle.

Qantur Academy Overview

1 Leadership in Simulation Training

Qantur Academy leads engineering simulation training, emphasizing preparedness through dedicated excellence and advanced Ansys applications.

2 Commitment to Continuous Learning

A commitment to continuous learning enriches our training approach, ensuring relevance in a rapidly evolving engineering landscape.

3 Practical Application Focus

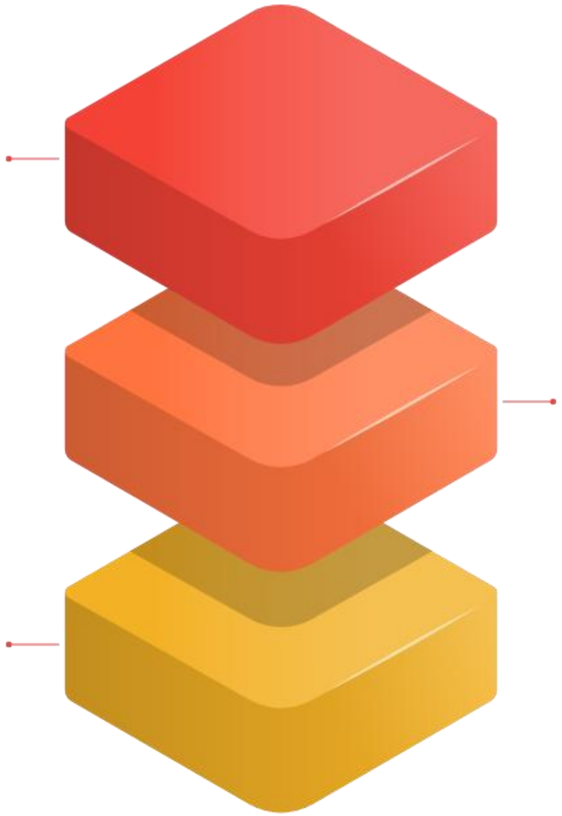
We prioritize practical applications of Ansys tools, enhancing skill acquisition and facilitating real-world engineering problem-solving.



Training Model

Customized Training Programs

Qantur's tailored training programs align precisely with team needs, driving effective skill development and knowledge assimilation.



On-the-Job Guidance

We provide real-time support, enhancing practical learning while ensuring smooth integration of processes within workflows.

Process Standardization

Implementing standard practices enhances efficiency, ensures quality, and facilitates knowledge sharing across engineering teams.

Training Formats and Audience

Here's where you can provide additional context and details about your AI-Enhanced concise headline.

1

Diverse Training Formats



We offer self-paced, live virtual, and on-site training to accommodate various learning preferences and schedules.

2

Targeted Audience Segmentation



Our training programs are designed for beginners, mid-level professionals, and organizations seeking skill enhancement.

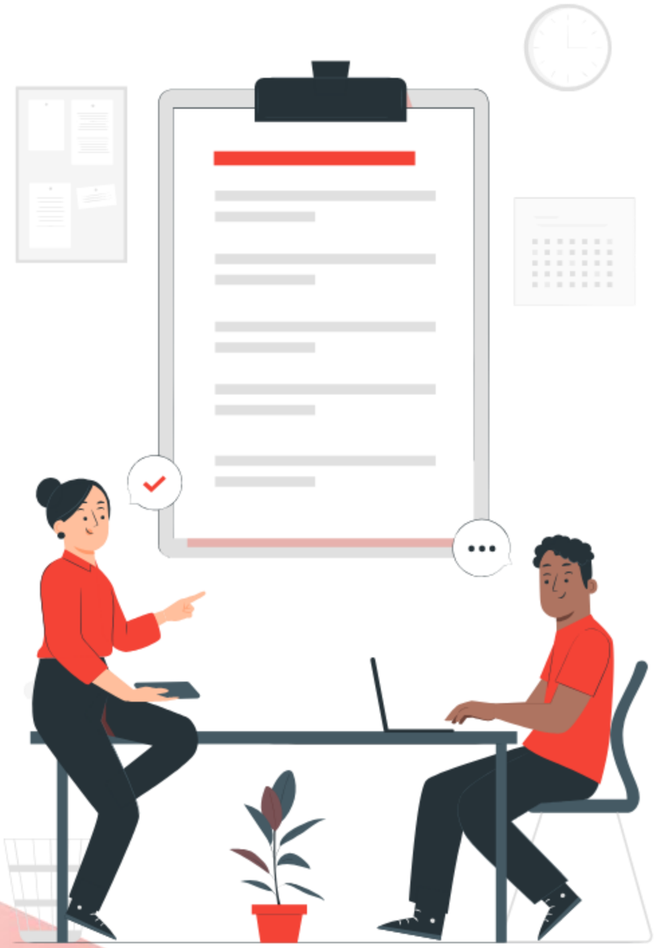
3

Flexible Learning Pathways



Flexible pathways ensure accessibility and engagement, catering to learners with differing levels of experience and goals.

Certification and Support



Certification Process

Qantur Academy's certification process ensures standardized evaluation, reinforcing competency metrics across engineering domains effectively.

Ongoing Support Structures

We provide continuous support post-certification, aiding professionals in skill application and career advancement through mentorship.

Enhancing Employability

Certifications significantly enhance employability, equipping engineering professionals with recognized credentials and skill validation in the job market.

Certification Levels: Journey to your Simulation Engineering Pathway



Basic Certification Level

The outcome of the basic level ANSYS certification is demonstrating foundational knowledge and skills in using ANSYS software for simulation and analysis.



Standard Certification Level

The outcome of the intermediate level ANSYS certification is validating a deeper understanding and the ability to apply ANSYS tools to solve more complex engineering simulation problems.



Advanced Certification Level

The outcome of the advanced level ANSYS certification is proving expertise in using ANSYS software for complex, multi-physics simulations and advanced problem-solving techniques.

Why Choose Qantur Technologies?



Decades of Expertise

With extensive experience, Qantur Technologies leverages historical knowledge to tackle modern engineering challenges effectively.



Industry Insights

Deep understanding of industry trends allows Qantur to provide relevant solutions tailored to client specifications.



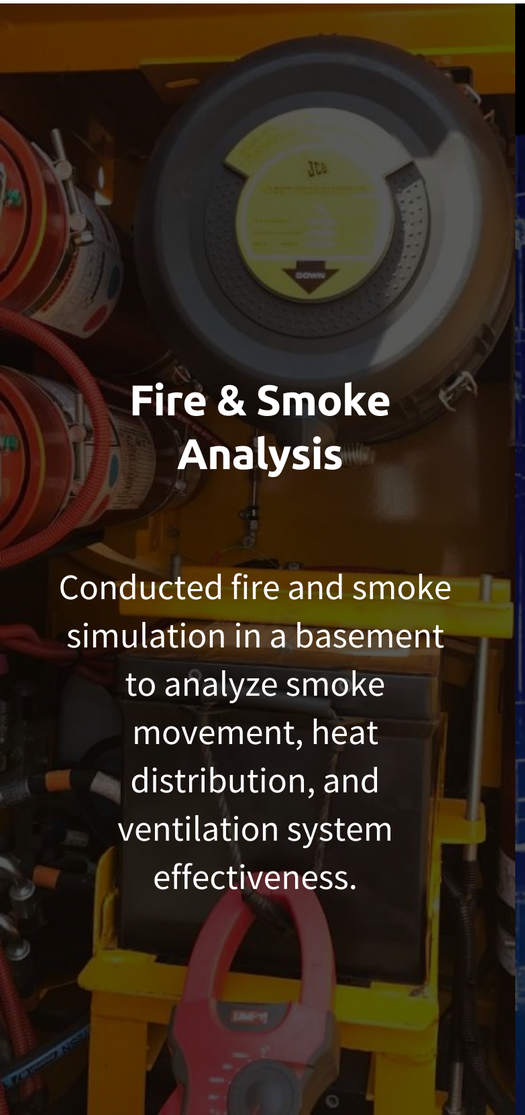
Client-Centric Approach

Focusing on unique client needs ensures customized strategies that foster long-term relationships and sustained value.

Our Credentials

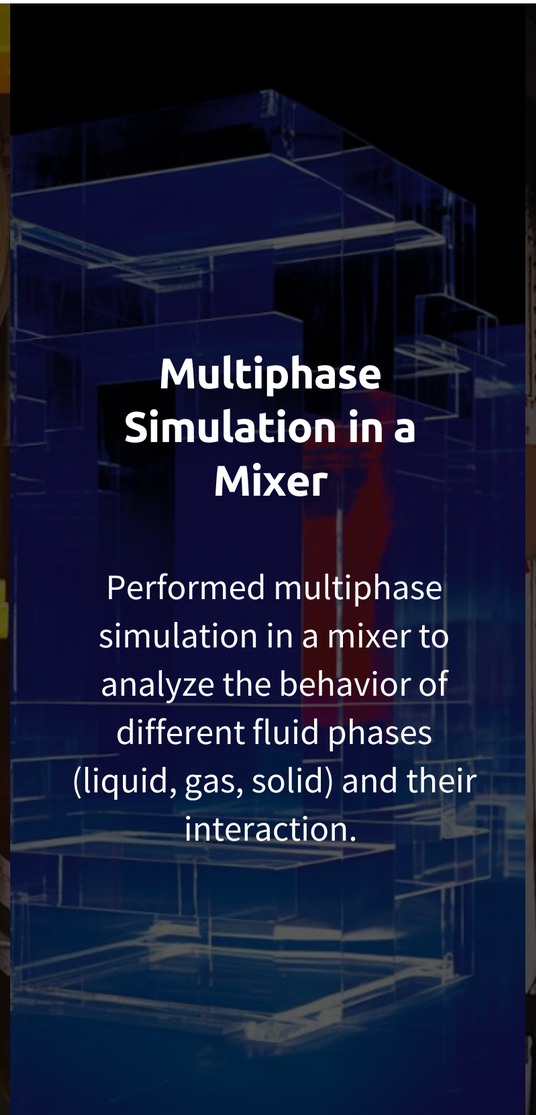
Key Projects by Qantur Technologies

Showcasing innovative engineering projects



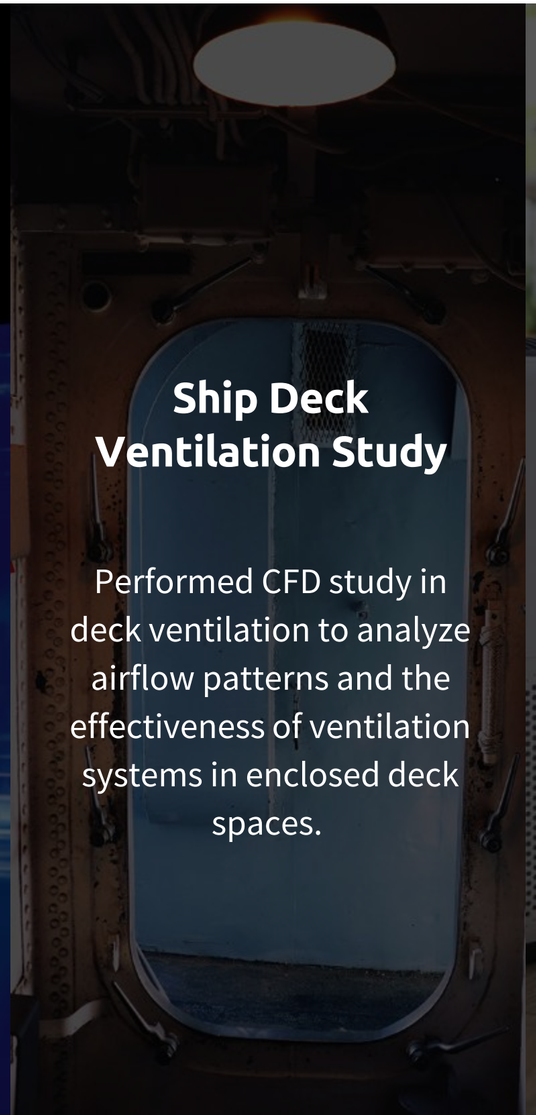
Fire & Smoke Analysis

Conducted fire and smoke simulation in a basement to analyze smoke movement, heat distribution, and ventilation system effectiveness.



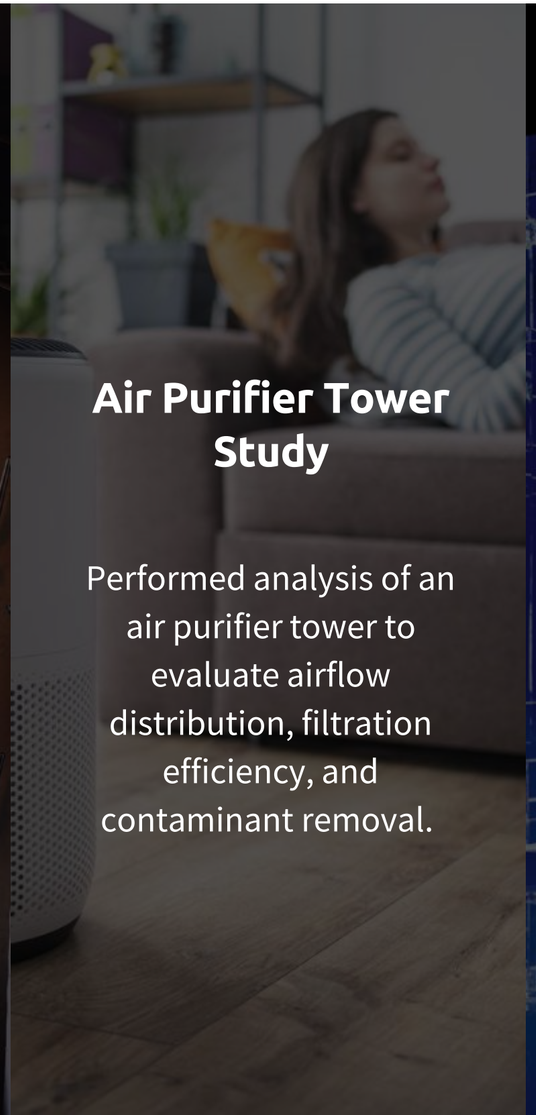
Multiphase Simulation in a Mixer

Performed multiphase simulation in a mixer to analyze the behavior of different fluid phases (liquid, gas, solid) and their interaction.



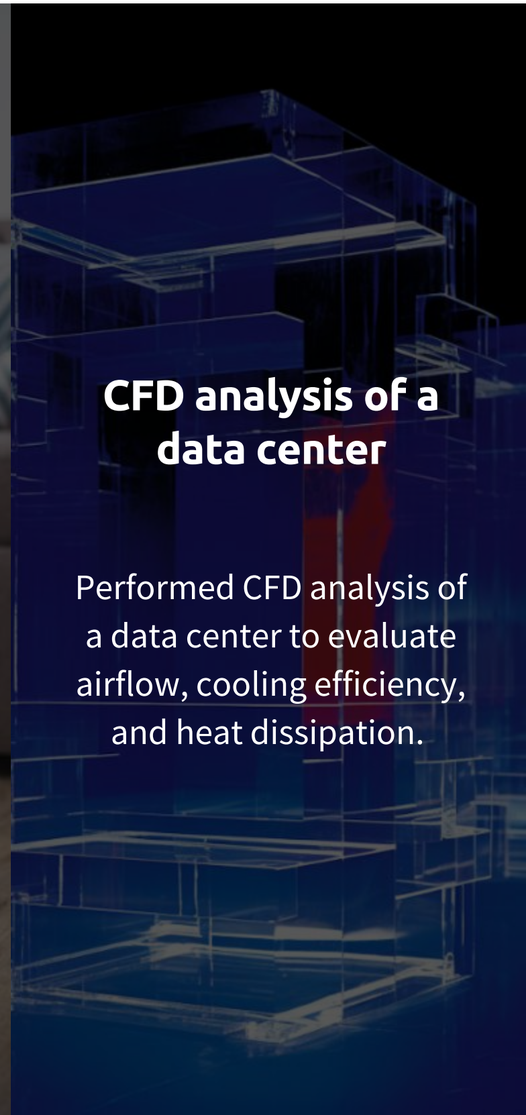
Ship Deck Ventilation Study

Performed CFD study in deck ventilation to analyze airflow patterns and the effectiveness of ventilation systems in enclosed deck spaces.



Air Purifier Tower Study

Performed analysis of an air purifier tower to evaluate airflow distribution, filtration efficiency, and contaminant removal.

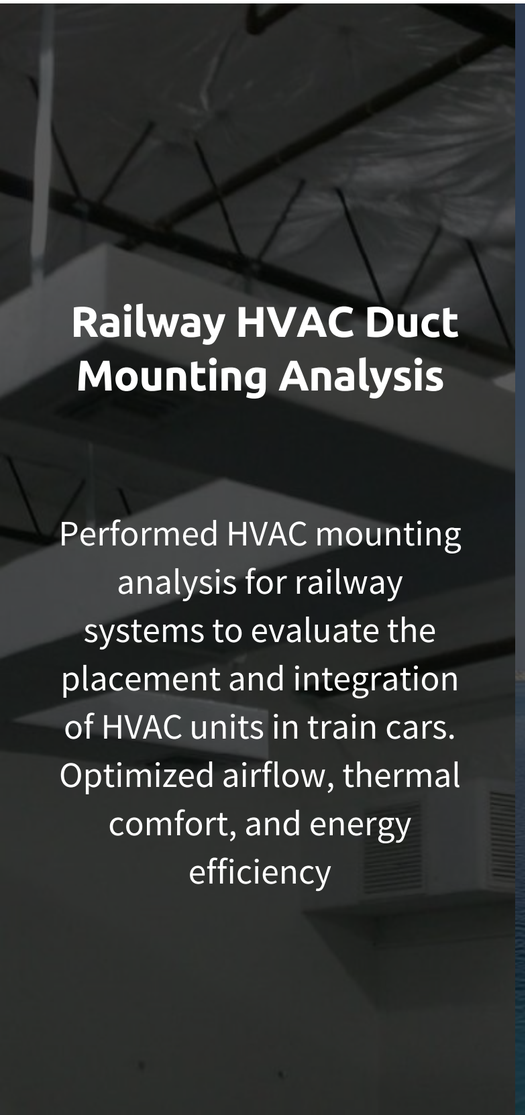


CFD analysis of a data center

Performed CFD analysis of a data center to evaluate airflow, cooling efficiency, and heat dissipation.

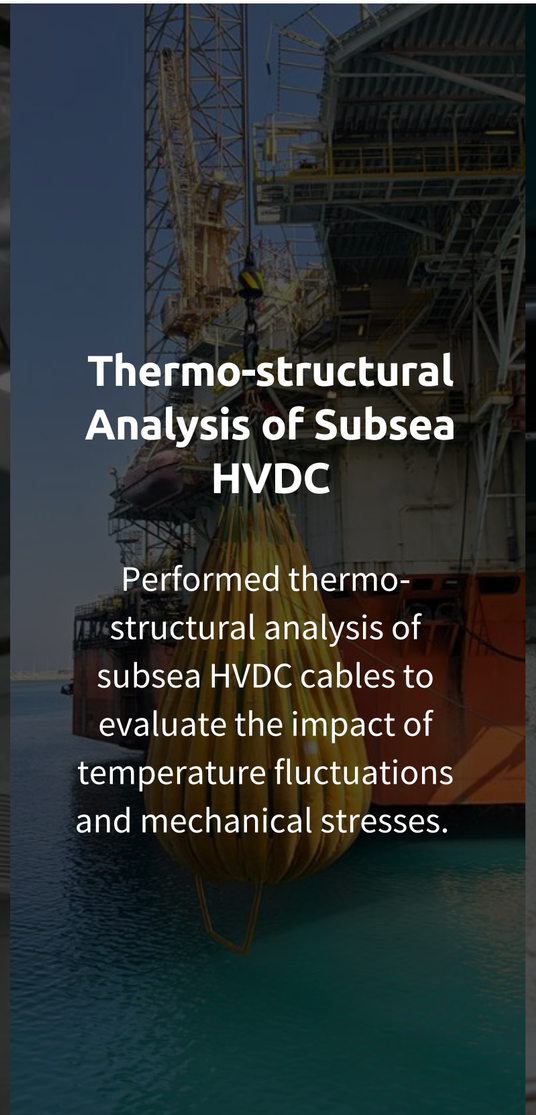
Key Projects by Qantur Technologies

Showcasing innovative engineering projects



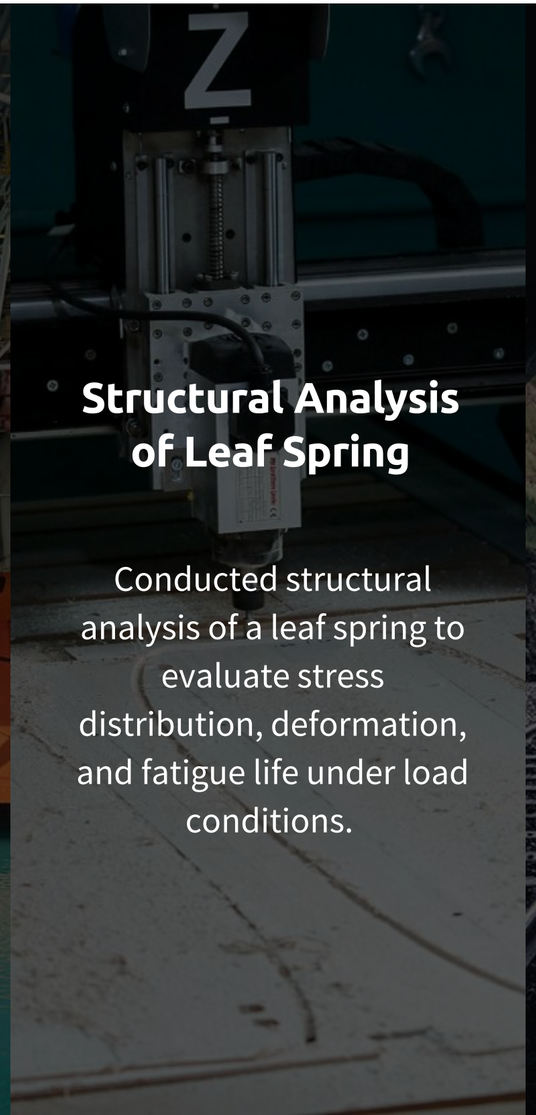
Railway HVAC Duct Mounting Analysis

Performed HVAC mounting analysis for railway systems to evaluate the placement and integration of HVAC units in train cars. Optimized airflow, thermal comfort, and energy efficiency



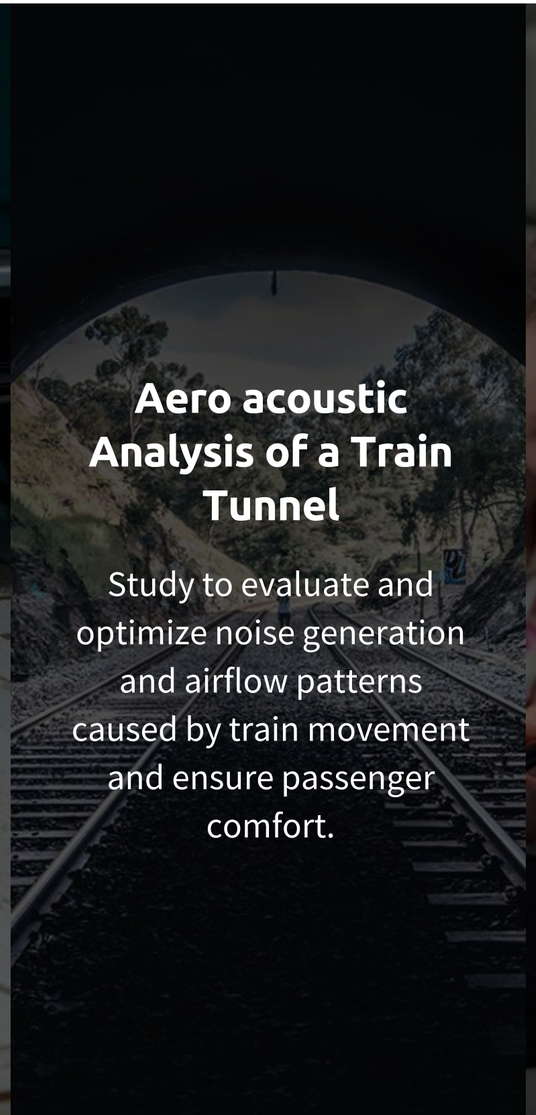
Thermo-structural Analysis of Subsea HVDC

Performed thermo-structural analysis of subsea HVDC cables to evaluate the impact of temperature fluctuations and mechanical stresses.



Structural Analysis of Leaf Spring

Conducted structural analysis of a leaf spring to evaluate stress distribution, deformation, and fatigue life under load conditions.



Aero acoustic Analysis of a Train Tunnel

Study to evaluate and optimize noise generation and airflow patterns caused by train movement and ensure passenger comfort.



Aero Acoustic Analysis of a Drone

Conducted study to evaluate and Optimized drone design and propeller configurations to minimize noise and improve efficiency while maintaining flight stability.

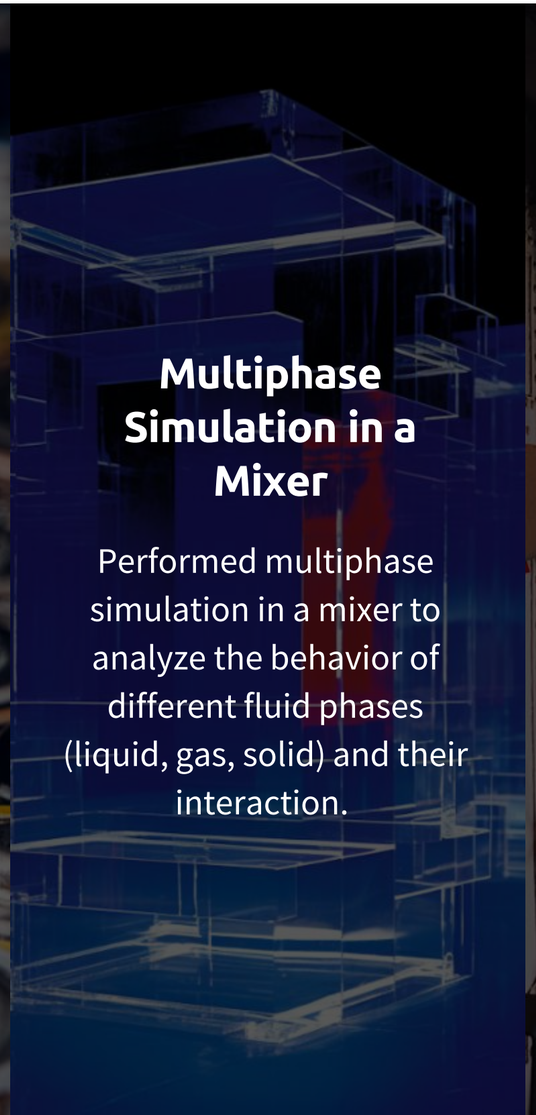
Key Projects by Qantur Technologies

Showcasing innovative engineering projects



CFD Analysis of Battery Packs

Performed CFD analysis of temperature distribution and heat dissipation within battery packs, focusing on thermal management to prevent overheating and optimize cooling efficiency.



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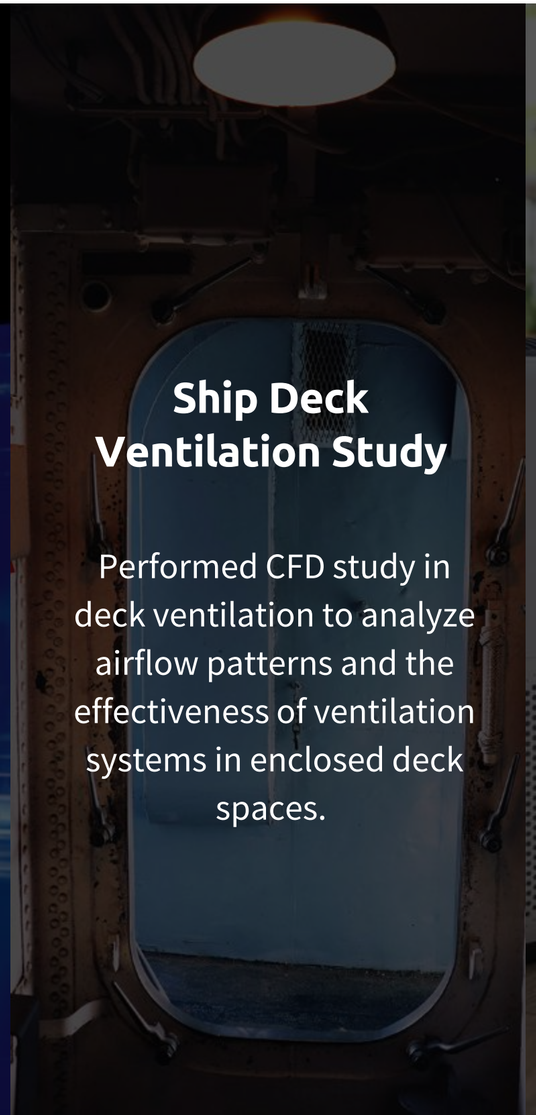

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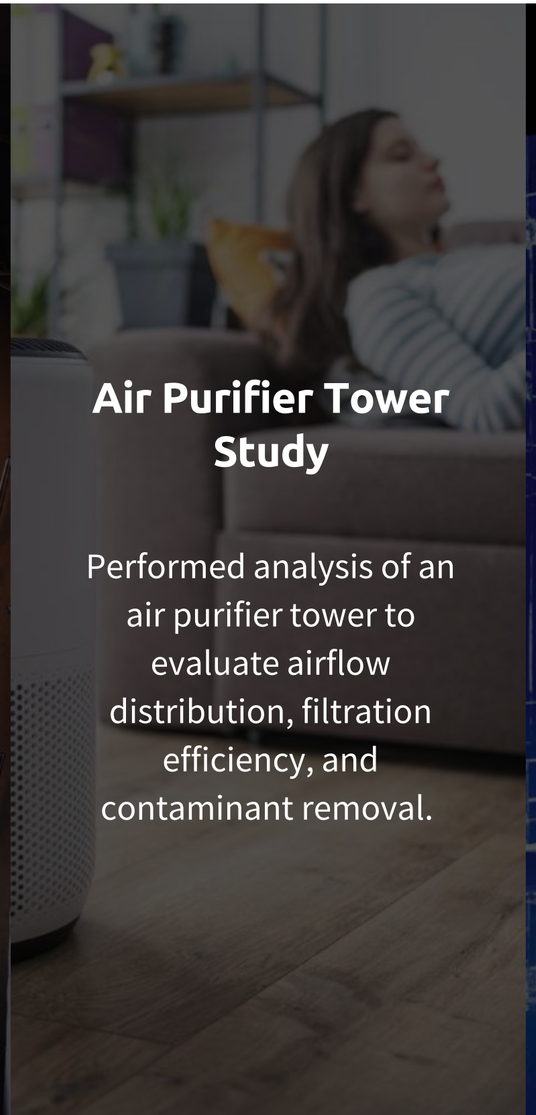

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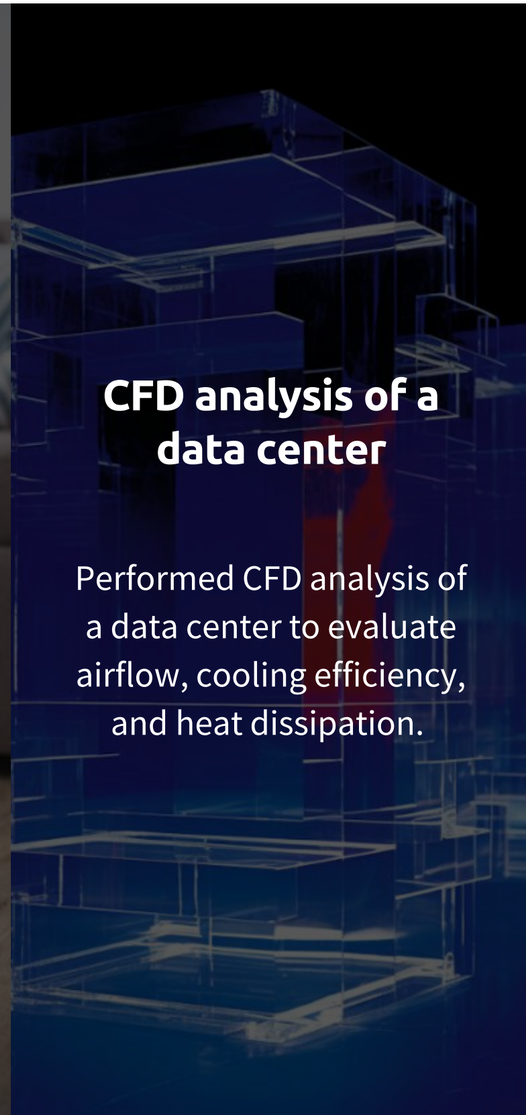

CFD analysis of a data center

Performed CFD analysis of a data center to evaluate airflow, cooling efficiency, and heat dissipation.

We are truly grateful to the Qantur Technologies team for their expert consulting in solving our complex CFD and FEA challenges. Their prompt responses and exceptional project management have been highly commendable.

CTO
Appliances Company

Our collaboration with the Qantur Technologies FEA & CFD team on a complex project was outstanding. Thanks to their team's hard work, we completed the project a week ahead of schedule.

Sr. Manager
EPC Company

We commend your technical team for their outstanding consulting work, demonstrating in-depth expertise. It’s a pleasure to recommend your implementation and high-level consulting services.

R&D Mgr.
Automotive company

Their collaborative approach and problem-solving mindset helped us optimize our designs and bring our products to market faster than we thought possible. They are not just a service provider—they’re an extension of our own team.”

Director PD
Automotive Company



THANK YOU

Let's Collaborate on this Captivating Journey

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