

A person is looking at a computer monitor. The monitor displays a 3D CAD model of a mechanical assembly, likely a multi-layer printed circuit board (PCB) with various components. The person's face is partially visible on the left side of the frame, looking intently at the screen. The background is a blurred office setting.

NX DESIGN

## The most powerful, flexible, and innovative product development solution in the industry

NX Design has the features, performance, and capabilities to help you get your product to market faster than ever before. This solution guide will give you all you need to explore the platform.

EMIXA

Expert  
Partner

Digital Industries Software

SIEMENS

**NX DESIGN**

# **NX Design enables you to deliver products “right to market, first time”**

By using more virtual product models and fewer, more costly, physical prototypes, NX leads to market gains, lower development costs, and improved product quality. NX Design has a full spectrum of tools that can match your specific needs. You can simply start and scale to achieve your desired results and get there in a secure, industry trusted platform.

**EMIXA**

## Contents

- 1 [Key Features](#)
- 2 [Further Learning](#)
- 3 [Industry Examples](#)
- 4 [Choose your NX Option](#)
- 5 - 7 [Training Options](#)
- 8 [Case Studies](#)
- 9 [About Emixa](#)

## Key Features

NX Design delivers the next generation of design, simulation and manufacturing solutions by integrating the best tools and software in a single platform to enable businesses to overcome the challenges of today's market.



Platform  
Flexibility



Scalable



Proven  
Deployment



Data  
Preservation

## Manufacturing

### Did you know?

NX has a full Manufacturing capability alongside its Design functions.

[Find out more](#)

[Discover all NX features](#)

### Convergent Modelling

Simplify geometry work by bringing in scanned data as facets, without the need of manual shape creation.

[Find out more](#)

### Additive Manufacturing

Overcome the unique challenges of designing, optimizing and building metal and plastic components through a seamless integrated process from design model to printed part.

[Find out more](#)

### Animation Designer

This motion analysis application aids the study of kinematic behaviour of designs and will help you understand what a product will look like under normal operating conditions.

[Find out more](#)

### P & ID Designer

Create functional or logical designs of piping and instrumentation systems with the goal of accelerating design and re-use data to help reduce project completion times.

[Find out more](#)

### Styling

A powerful set of tools for industrial design delivers all the capabilities to ensure you are using advanced forms that unite function and ergonomics in aesthetically pleasing designs to distinguish your products.

[Find out more](#)

### Routing

Process specific tools including wire harnesses, cables, piping, tubing, conduit and raceways that aim to reduce detailed design time, improve product quality and transfer product information seamlessly.

[Find out more](#)

### Design Validation

Ensuring all CAD data and product designs meet industry, customer and company standards. The result being a higher quality product developed quicker and at a lower cost.

[Find out more](#)

### Motion Simulation

Predict and understand the functional behaviour of parts and assemblies, and provide a complete set of capabilities to support all aspects of advanced dynamic, static and kinematics motion simulation.

[Find out more](#)

### Visual Reporting

Integrate company data and 3D product design to make easier unambiguous assessments, interpret information more accurately and synthesize product and process data rapidly.

[Find out more](#)

### NX Open

NX software provides an automation architecture that serves as the foundation for all NX APIs as well as a journaling utility that allows replay of interactive sessions at a later date.

[Find out more](#)



## Further Learning

Take a look at some of our resources to learn more about NX Design and how the software can bring a range of benefits to your company.

Join one of our  
events to learn more

[View our Events](#)

## Downloadable resources

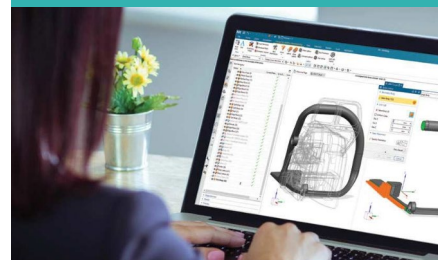


Download  
NX Design Brochure



Download  
NX Solution Fact Sheet

Get started

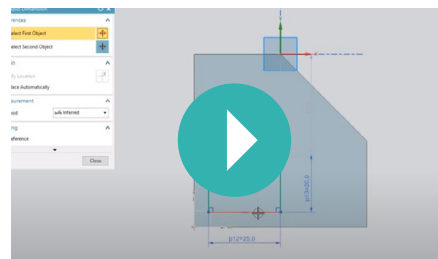


Download  
Free NX 30 Day Trial

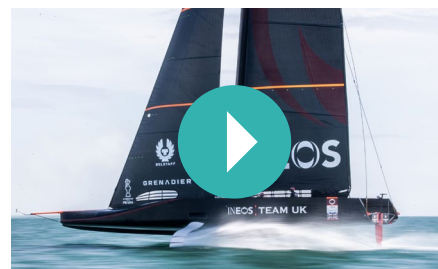
## Video Learning



Overview  
NX: Unleash Your Innovation



Getting Started  
with Models



INEOS Team Prepare for  
the America's Cup

Visit our On Demand web page to view all  
webinars, articles, videos and case studies

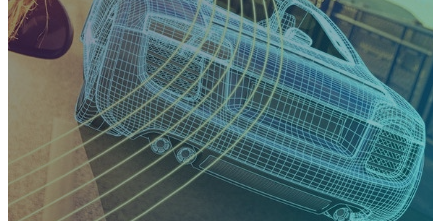
[Explore On Demand](#)

# Our Industries

Click on each industry to find out more information about how NX Design can over-come today's business challenges and transform your design process.



Aerospace & Defence



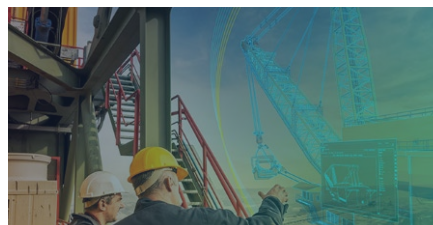
Automotive & Transportation



Electronics & Semiconductors



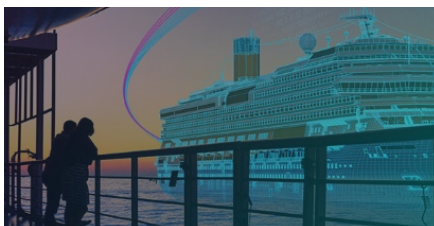
Energy & Utilities



Industrial Machinery



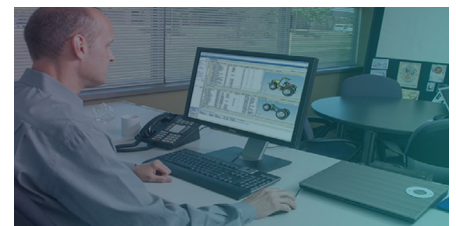
Pharmaceutical & Medical



Marine



Consumer Products & Retail



SMBs

## Importance of Digitalization

Digitalization promises lower costs, improved production quality, flexibility and efficiency. Take a look at our video to find out more.



## Who we work with





## Choose Your NX Option

We have a range of licensing options available to suit your business needs. You will have access to a team of experts who will ensure you have all the information you need to get you up and running, fast.

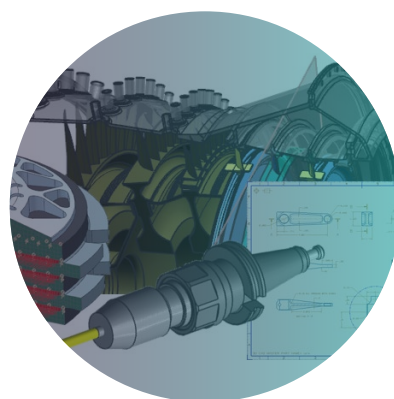
### Perpetual Licensing

Our perpetual license for NX Design provides you with the full software suite that you own permanently after one initial purchase. You have access to the entire suite of tools to ensure you have everything you need to achieve your business goals. The software will be available for you to use indefinitely, offering powerful and extensive design capabilities whenever you need them.



### Subscription Licensing

Subscriptions offer flexibility, cost-effective licenses, and a way to easily increase or decrease the number of software licenses depending on your business needs. Subscription licensing is ideal for organisations that require software tools for short to medium term usage. For those requiring complete flexibility with their software licensing, this is the perfect solution.



### Token Licensing

Token licensing is a new way for your business to adopt and use NX Design tools in the most cost effective way, all whilst putting the license control and setup into your organisation's hands. Your licensing shouldn't restrict the way you work, that's why with Token licensing you are able to constantly change your licensing options to fit your budget and business needs, alongside the ability to check in and out of a central pool that you manage. This licensing method is flexible and scalable.

As your business grows and you require access to more tools, you are able to purchase more tokens to access these extra capabilities.



# Training Options

We want to help you get up and running fast, that's why we offer a range of training options so you can achieve your business goals and transform how you work. Here at Emixa UK, our experienced team have decades of experience within the design and manufacturing industry and our training is delivered by our industry-experts, who are here to support you throughout the session and beyond.

## Remote Training

We offer remote training online in a secure environment that you can attend solo, or with your team. You will still receive the same expert-level of training from our experts to ensure you have everything you need to get the most out of your software solutions.



## Classroom Training

We know that for some, nothing beats training in person and having someone in front of you sharing their knowledge and expertise. Join us at our office in Oxford where our experts can deliver industry-leading training and be on hand to ensure you have all the knowledge and skills you need to get the most out of your software. This training is available at our head office or at your site.



## Bespoke Training

Every business we work with is completely different and some businesses need more specific training than others. We can deliver bespoke training packages specific to your business needs to ensure you get the most out of your software. Our experts have the industry knowledge necessary to provide high-quality and accurate training that will give you everything you need to tackle even the most complex tasks.



### Sunseeker

"Emixa UK are always professional and exceptionally helpful. In particular we are very happy with the software training they provide, as we are able to learn using our own designs."



### The Alloy

"Emixa UK are flexible and creative, working with us to ensure that we really benefit from their specialist knowledge of NX."



### Monier

"With onsite consultancy and staff training from Emixa UK, we were able to optimise our CAM processes to significantly reduce programming times utilising the new application functionality."



# Training Options

## Core Courses:

- [NX Design Essentials](#)
- [For Data Consumers](#)
- [Experienced CAD Users](#)
- [Advanced Design & Assemblies](#)
- [NX Sheet Metal](#)
- [Drafting](#)
- [Layout: 2D Scheming](#)
- [Upgrade Training](#)
- [Surfacing](#)

Explore NX CAD Core Training



## Specialist Courses:

- [NX PMI](#)
- [NX Routing Electrical](#)
- [NX Routing Mechanical](#)
- [Design for Additive Manufacturing](#)
- [Reverse Engineering & Polygon Modelling](#)
- [Topology Optimisation](#)
- [NX PCB Exchange](#)
- [NX FloEFD](#)
- [NX FloEFD Advanced](#)

Explore NX CAD Specialist Training

Are you looking to develop your  
NX skills?

Learn more





# Use your processes with the best tools, to get things done faster in the right way

At Emixa UK we have almost 25 years' experience of supplying industry-leading Siemens Digital Industry Software solutions to organisations that design and make. We also have the largest, most diverse and highly rated technical team for your training, consultancy and support needs, who combined have over 600 years of hands-on experience.



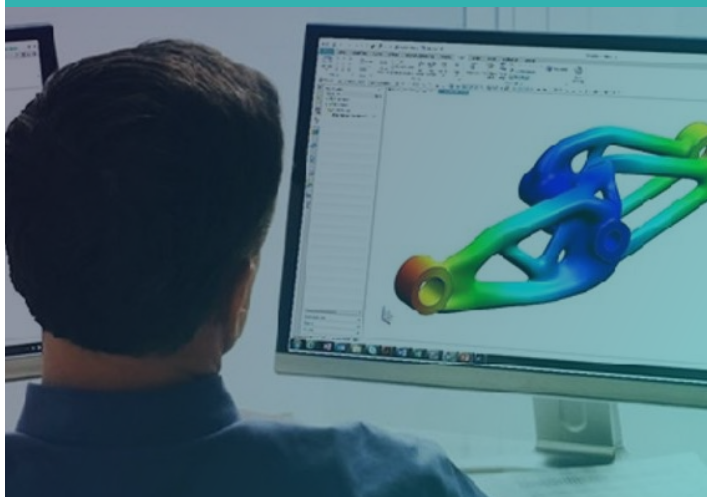
## Consultancy

- Best Practices
- Methods & Procedures
- System Configuration
- Skills Validations
- System Performance
- Managed Services
- Engineering Consultancy

[Learn more](#)

## Expand your knowledge on NX Design software

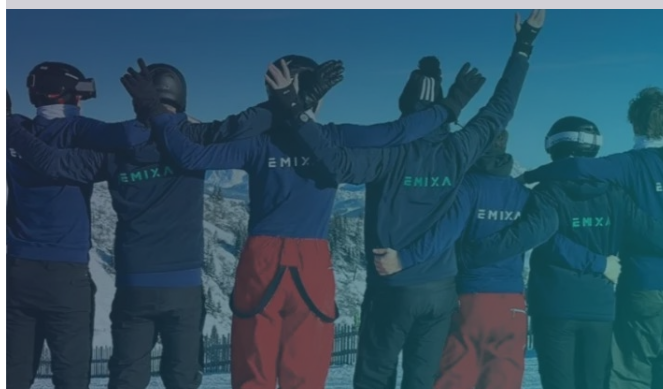
[Watch the video](#)



## Our People

Our mission at Emixa is to create an organization where people can grow and develop themselves to the fullest. We collaborate to help ourselves and our clients excel in the most positive and impactful way.

[Find out more](#)



# Case Studies

## Sunseeker

The design team at Sunseeker is typically developing four new or refreshed models each year and has been using NX™ software for more than a decade.

**The results gained from utilizing the software include:**

- Eliminating two stages of the design cycle
- More than twice as much design detail captured in drawings
- 100% increase in production rate

[Learn more](#)[Watch video](#)

## Xtrac

Established in 1984, Xtrac has become recognised as the worldwide leader in the design and manufacture of transmission systems supporting a wide client base covering top level Motorsport and high performance Automotive. The complexity and pace of the industry means Xtrac need a design environment that can keep up and keep them moving forward.

**As a result of implementing NX Design, Xtrac have:**

- Fully optimised design and manufacturing process
- Reduced lead to 12 weeks from computer screen to race track
- Achieved higher quality and innovation

[Learn more](#)

## JCB

JCB had traditionally relied on sourcing engines through third party suppliers, but made the decision to develop its own engines to further increase customer satisfaction.

**Through bringing this part of the process in-house, JCB have successfully:**

- Developed and launched the JCB444 Diesel engine
- Enhanced product quality through introduction of purpose-built diesel engine
- Gained superior competitive edge

[Learn more](#)[Watch video](#)

## About Emixa

We at Emixa are a Digital Transformation specialist that help make businesses more agile and efficient through the use of world leading core technologies; PLM, ERP and Low code. To drive maximum efficiency and seamless collaboration, we also provide services in management consulting, integration and data analytics which create business value and increase competitive advantages leading to optimal performance and results. With a focus on the manufacturing industry, coupled with our decades of experience and global footprint, we at Emixa can help your business innovate, accelerate and attain new heights.

[Watch Video](#)

Explore our full range of solutions  
and discover what's right for you

[Explore all our solutions](#)