# NemoFAB

The most comprehensive
oral and maxillofacial surgery platform

NEMOTEC

# Why NemoFAB?

NemoFAB  is a cutting-edge software that allows total control throughout the digagnosis and treatment process, optimizing times and improving communication with the patient.

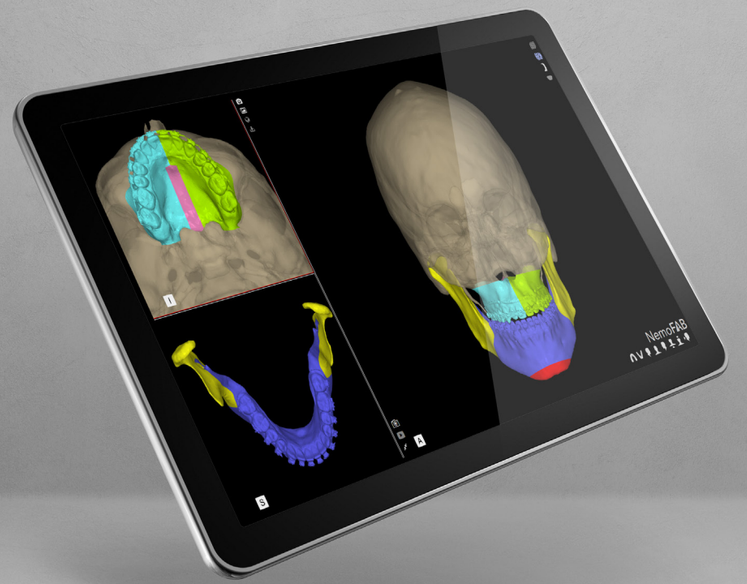
Functionality & Aesthetics
balanced profile + improved oral function



It's an incredibly comprehensive tool for diagnosis and treatment planning for facial, airway and bite corrections.

Dr. William Artnett






# Benefits

NemoFAB allows total control throughout the diagnosis and treatment planning process, optimizing times , improving communication with the patient and overall treatment outcomes.

**01 | REDUCED TIME**
Thanks to our AI- based features and ongoing developments we reduce the time on the technical processes and let you focus on the clinical aspects of planning.

**02 | COMPLETE DIAGNOSIS**
· AI-based Automatic Segmentation for Anatomical Structures
· TMJ analysis
· Airway Analysis
· Virtual X-RAYS generation
· AI-based Automatic 2D Cephalometric tracing
. 3D Cephalometric tracing

**03 | CLINICAL FORMS**
· Available clinical forms for diagnosis and patient evaluations. NemoFAB includes Dr Arnett's updated FAB Forms.

**04 | COMPLETE TREATMENT WITH 2D AND 3D CEPHALOMETRY**
· Profile planning in 2D and automatic conversion of the treatment plan to the 3d environment
· Standard Surgical Planning in 3D.
· 2D and 3D morphing soft tissue morphing.

**05 | USE OF THE VIRTUAL ARTICULATOR**
The virtual articulator allows precise simulation of mandibular movements and dynamic occlusion analysis, optimizing surgical planning and reducing time in orthognathic procedures.

**06| TREATMENT EVALUATION**
NemoFAB´s semi-automatic tracing guides landmark placement, offering over 14 cephalometric analysis in 3D.

# The NemoFAB Process

## Efficient workflow




**1. Orientation**

The volume orientation is achieved automatically by entering key measurements based on the clinical analysis.

**2. Records**

During this step frontal, lateral and panoramic radiographs are produced, TMJ slices and the analysis of the airway is performed. These records are conveniently stored in NemoStudio's image library for later viewing and performing analysis.

**3. Model Merging**

This technical step will allow us to work with the CBCT volume while maintaining the high-quality detail of the digital scans for the teeth.

**4. Osteotomy design**

Thanks to the possibility of customization, surgeons now have full control of the design of osteotomies according to their own styles and techniques. With the automatic segmentation we can see teeth roots and nerves while tracing the osteotomy, avoiding complications during surgery.

**5. 3D cephalometric tracing**

NemoFAB's semi automatic tracing will take you to the view where you need to place the landmarks. The surgeon can choose from more than 15 analysis available 3D tracings.

**6. 2D cephalometric tracing**

While we can plan only in 3D, the Arnett protocol starts with profile planning in 2D. Thanks to AI we can have an automatic placement of landmarks in 2D. In this steps we are able to perform our surgical planning (STO) and show beautiful 2D soft tissue morphing. All this treatment plan can be automatically converted into the 3d environment.

**7. 3D treatment plan**

The 3D standard planning panel allow us to perform movements over the bone fragments and create our final occlusion. Whether we import the scanned final occlusion or create it virtually , NemoFAB allows you to use sophisticated occlusion maps for distance and contact evaluation in both arches and within the osteotomies. We can also automate the planning by using our automations panel.

**8. Splint design**

In the final step, surgeons design the splints in accordance with their specifications. The splints can be easily exported and printed in-house or outsourced to a laboratory.

**NemoFAB** improves surgical **precision, saves time, and enhances patient communication** - ideal for clinicians seeking full control from diagnosis to surgery.

Plan **complex osteotomies,** simulate **soft tissue response**, and perform **TMJ analysis** in a single workflow.

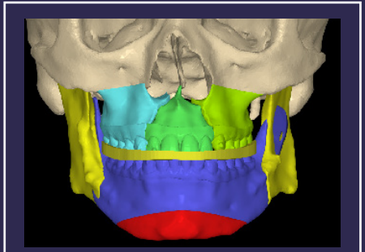
**Importing records and Automatic Segmentation with AI.**
- Models will be automatically aligned to the CBCT scan.
- Meshes will be clean and anatomical structures will be segmented, saving time in the preparation and increasing precision.



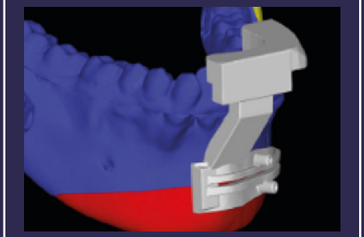
# Products



Custom plates



Splints (intermediate and final)



Osteotomy guides

**NemoFAB (Face, Airways, Bite)** is the most comprehensive digital platform for orthognathic surgery, incorporating **Dr. William Arnett's surgical protocol.** It enables accurate **2D/3D diagnostics, simulation of aesthetic and functional outcomes,** it allows design of:

**- Surgical Splints**
Designed from virtual occlusion and jaw repositioning, ensuring precision and predictability.
**- Osteotomy Guides**
Patient-specific cutting guides based on anatomical references for accurate, repeatable bone cuts.
**- Custom Fixation Plates**
Pre-adapted to the final skeletal position for optimized fit and reduced operative time.

# Why NemoStudio?

- The most powerful **Interdisciplinary Digital Dental Platform.**
- **Cloud-based**, access your data anywhere, anytime.
- **AI-powered tools** with automated functions reducing significantly planning time and allowing you to fully concentrate on the clinical aspects of the case.
- **From records to products.** Full range of devices integration (CBCT, IOS, intraoral and extraoral digital Xrays, 3D printers...).
- **Co-Op environment** for Clinics, Planning Centers, Labs and Industries.
- **NemoStories™:** Get your patients and referrers amazed. Automatically build your cases stories and share them in your favorite social network.

**+20.000** users worldwide

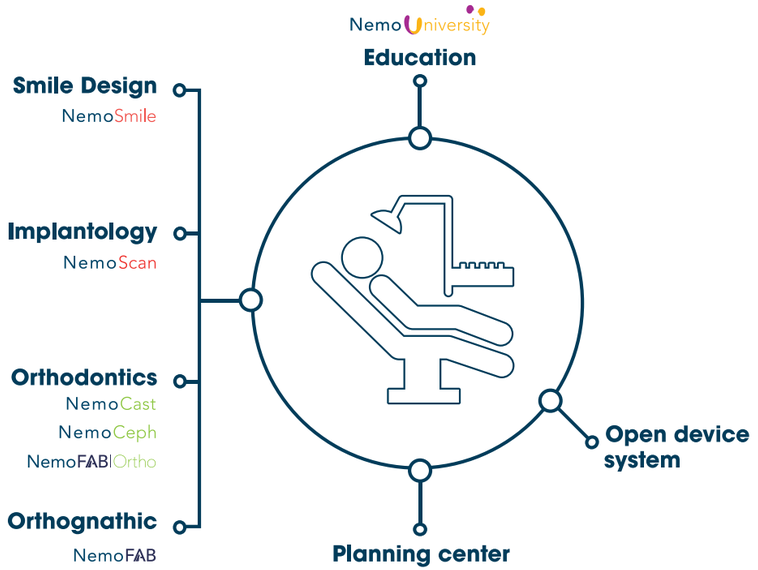
**97** countries

**+30** years of experience

**Faster** diagnoses, **safer** decisions
and **exceptional** results.



NemoStudio




## Multidisciplinary Digital Platform

- Platform Integration
- Quality Control
- Traning & Digital Planning

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