



FRANCISCO J. MARTINEZ BERNAL

BIM ARCHITECT / FRANK-ARK.COM

PROFESSIONAL EXPERIENCE

IDOM | CONSULTING, ENGINEERING, ARCHITECTURE - BILBAO

- BIM Staff Deputy Manager** **IDOM** | 04/2025 - Present
Minerals & Metals Department. BIM projects in the civil engineering sector.
From conception, reference documentation, project coordination, and execution phase in LOD 400.
- SSAB - Fossil-free mini-mill in Luleå

ONKAI ESTUDIOS Y PROYECTOS S.L - BILBAO

- BIM Management & Coordination** **Onkai S.I - IDOM** | 04/2022 - 04/2025
- 08/2024 - 04/2025 | **BIM Management - Laminator SSAB**
- 11/2023 - 08/2024 | **BIM Coordination - Laminator Grupo Estrella.**
Establishment of methodologies and strategies. Creation of reference BIM documentation. Coordination of the BIM model. Execution phase and LOD 350.
- 04/2022 - 02/2024 | **BIM Modeler & Coordination - Shoaiba water treatment plant - Saudi Arabia**
Clash Detection, BIM model coordination, solution design and modeling.
- COAVN Architect** **Onkai S.I** | 02/2022 - 08/2023
Construction manager. Chartered architect for the execution of a single-family residential project. Preparation of energy efficiency certificates, construction monitoring and development of execution project using BIM model.
- BIM Civil Modeler & Coordination** **Onkai S.I - LKS Krean / Acciona Agua** | 09/2021 - 04/2022
BIM modeller for various modelling and coordination tasks in civil works projects for both LKS Krean and Acciona Agua.
- Draftsman BIM** **Onkai S.I - SAITEC** | 05/2021 - 09/2021
BIM draftsman for the management of the new Lamiako water treatment plant.
- Architect BIM Draftsman** **Onkai S.I - LKS Krean** | 02/2020 - 04/2021 | 09/2021 - 12/2021
Architect draftsman for the management of the BIM model and plans for the new headquarters in Madrid of Generali Seguros. Project carried out with LAMELA Architects. Participation from the beginning of the execution project. Model with +40,000m2 of surface area and LOD 300. Execution phase.
- Architect BIM Draftsman** **Onkai S.I - IDOM** | 09/2019 - 01/2020
Architect draftsman for the management of the BIM model and plans for the new headquarters of the European Investment Bank in Luxembourg. Model with +62,000m2 of surface area and LOD 350. Execution phase.

FREELANCE

- Architect BIM Architect** | 11/2019 - 02/2021
Basic and execution projects. Architectural competitions. Point-based modeling with Autodesk Recap and Autodesk Revit.
- Drafting for housing, ideas competitions and preliminary projects.
 - Project modeling for RDT STUDIO - RDT Ingenieria

BIMTEC S.L - VALENCIA

- BIM Modeler BIMTEC S.L** | 01/2019 - 04/2019
BIM Technician in Revit Architecture for railway infrastructure in Paris, France. Architectural and structural model of the Gare de Austerlitz, train station with +35,000 m2 of LOD 300 and LOD 200 surface area; and Denfert Rochereau station LOD250.

UNIVERSITY INTERSHIPS - VALENCIA

- Court expert IPESA S.L** | 02/2015 - 06/2015
Field architect for the preparation of judicial expert reports in the city of Valencia.



CONTACT



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ABOUT

Architect by vocation. My interest in the profession arose from a very young age, where taking advantage of my hobby for computers I focused my learning on the use of new technologies in the architectural field. Starting with work in Sketchup, AutoCAD, Photoshop and InDesign, I would end up focusing on the use of BIM methodologies and their application Revit. My professional aspirations focus on the application of this knowledge in architectural projects and the development of my own projects as an architect. Currently I am developing my professional capacity both in architectural projects in the company Onkai S.L and in civil engineering projects under the BIM methodology in other companies.

SKILLS

CREATIVITY · SELF-LEARNING
· ORGANIZATION · DESIGN ·
COMMUNICATION · PROACTIVITY

MAIN SOFTWARE

Aut. Revit	<div></div>
Aut. Autocad	<div></div>
Sketchup V-Ray	<div></div>
Adob. Photoshop	<div></div>
Adob. Indesign	<div></div>

LANGUAGES

First Certificate - Cambridge | 2016



FRANCISCO J. MARTINEZ BERNAL

BIM ARCHITECT / FRANK-ARK.COM

EDUCATION: ARCHITECTURE & BIM

PFC: Timber Tower

30 ECTS

Thesis Final degree project | 09/2018

Project on modular hybrid construction in wood and its implementation in a large-scale BIM model. Project interviewed and published by the company CREE by Rhomberg.

Master of Architecture

30 ECTS

Universitat Politècnica València | 2017 - 2018

On-campus qualifying master's degree at the Polytechnic University of Valencia leading to a final degree project.

Degree in Architecture

300 ECTS

Universitat Politècnica València | 2011 - 2017

Final degree project: Study of BIM in the project-construction process of high-rise architecture. Collaboration on a real project built on an apartment block in Calpe.

MATER BIM & BIM CERTIFICATIONS

Master BIM Management International

30 ECTS

Máster BIM Manager - 200h - Nebrija University - Autodesk Revit | 01/2022 - 03/2024

BIM Management Master consisting of the management and coordination of BIM models in all their dimensions.

- BIM project management: Preparation of a BEP and various documentation for the correct management and launch of a project.

- 3D: Coordination of 3D interferences.
- 4D: Construction planning and time management.
- 5D: Budgets based on a Revit model.
- 6D: Energy efficiency and sustainability in BIM.
- 6D: Asset management and maintenance.

Master BIM Modeler

Máster BIM - 400h - Autodesk Revit | 01/2019 - 01/2020

BIM Master consisting of the preparation of the different BIM disciplines in the Revit environment. Architecture, Structure, MEP and Rendering.

ACP Revit

Autodesk Certificate Professional | 01/2020

Official in-person certification, endorsing +200 hours of practical dedication external to the Autodesk Revit Architecture Metric program.

Revit MEP Certificate

MEP course - Mechanical and sanitary installations | 2019

7-week practical course where advanced knowledge of the design of mechanical and sanitary installations in BIM is acquired.

Revit Structure Certificate

Structure Design Course | 2019

27-hour practical course where advanced knowledge of structural design in Revit Structure is acquired.

Revit Professional Certificate

Parametric families course | 2017

66-hour practical course where skills were acquired on parametric families in relation to Revit Architecture, Revit MEP and Revit Structure.

Revit Certificate Advanced

Advanced Revit Architecture Course | 2017

56-hour practical course in which advanced exercises are carried out in the Revit program to solve architectural problems.

PROGRAMS

_AUTODESK ENVIRONMENT

- Autodesk Construction Cloud
- Professional use of Revit.
 - BIM Management
 - Point Cloud Modeling
 - Architecture Competitions
 - Large offices
 - Industrial facilities
- Professional use of AutoCAD

_ENTORNO ADOBE

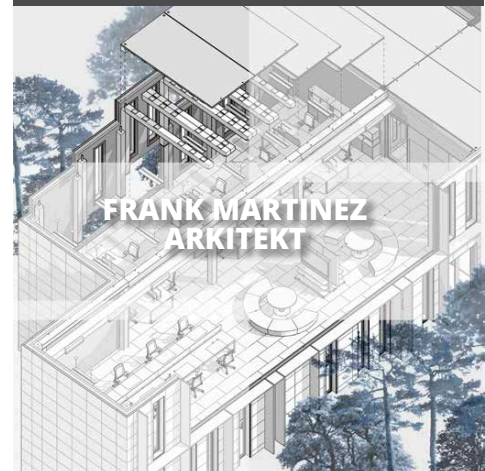
- Photoshop photomontages
- InDesign layout

_ENTORNO GOOGLE

- SketchUp Pro modeling, with rendering in V-Ray

WEB-SITE

FRANK-ARK^{COM}
ARQUITECTO



For more information, visit my website:

www.frank-ark.com

OWN PROJECTS - FRANK-ARK.COM/PORTFOLIO

PROYECTOS PROPIOS - FRANCISCO J. MARTINEZ BERNAL

HOUSE 12 ETXEAURREA _2023-2024

_SINGLE-FAMILY
PRECAST BUILT
_BIZKAIA, MUNGIA

RVT

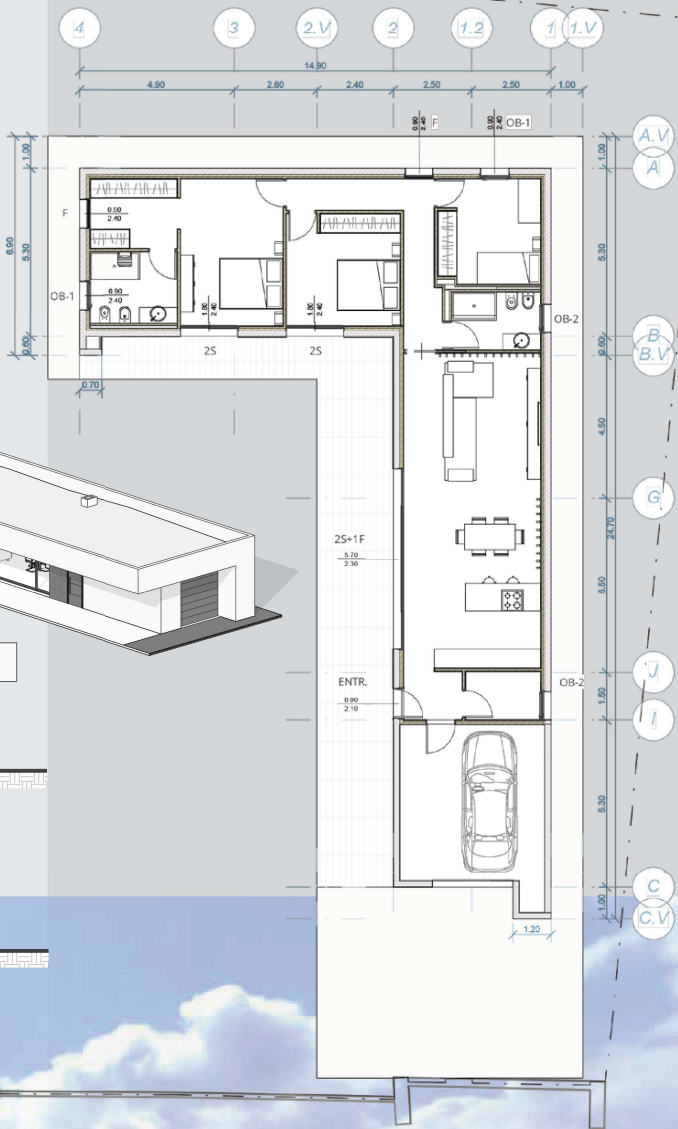
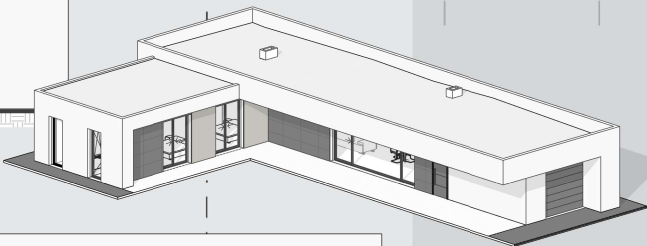
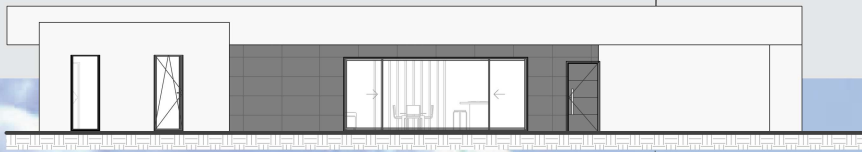
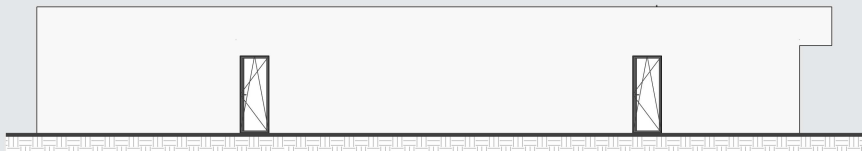
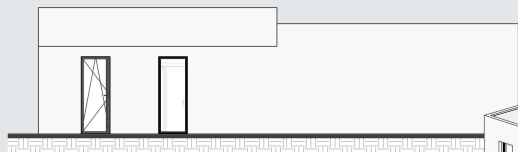
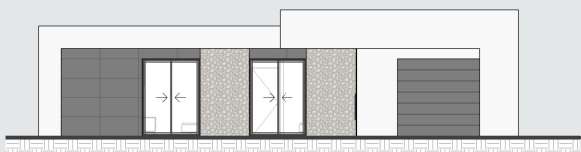
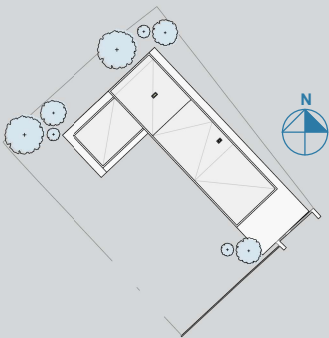
C3X

VRAY

SINGLE-STORY PRECAST CONCRETE
HOUSE

3 BEDROOMS, OPEN KITCHEN, IN-
DOOR GARAGE, LAUNDRY ROOM

UNDERFLOOR HEATING, SOLAR PA-
NELS AND GEOTHERMAL INSTALLA-
TION



COMPETITIONS - FRANK-ARK.COM/PORTFOLIO

PARTICIPATION IN COMPETITIONS - FRANCISCO J. MARTINEZ BERNAL

FLAMINGO OBSERVATION TOWER _2019

_ABU DHABI COM-
PETITION

RVT

BIRD WATCHING CENTER

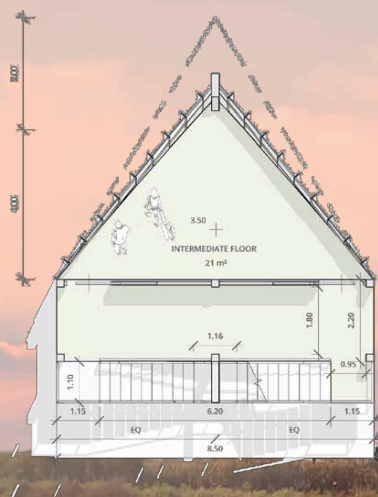
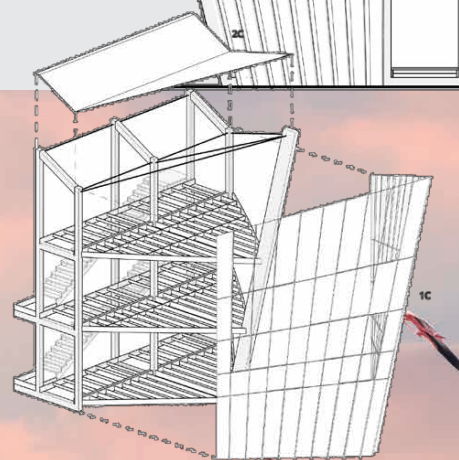
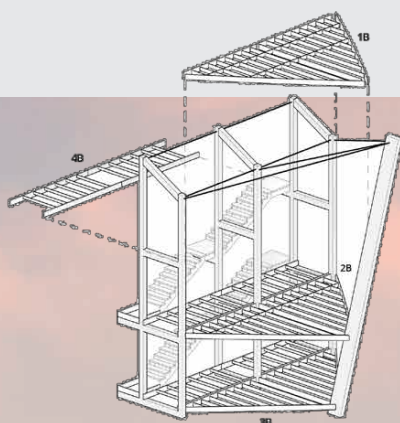
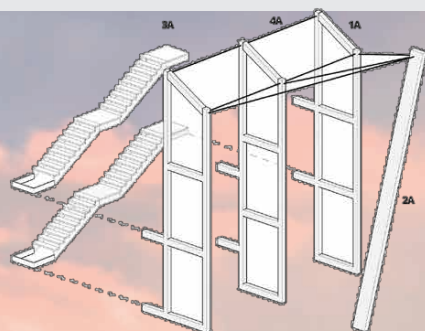
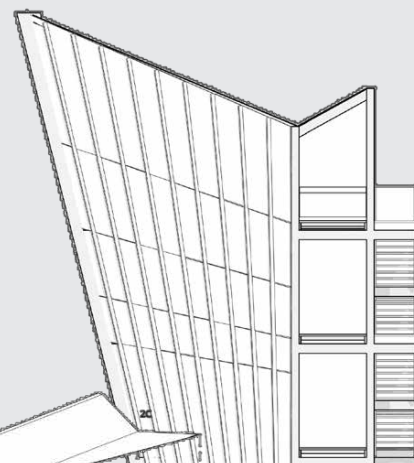
IND

INTERNATIONAL COMPETITION

OBSERVATION TOWER FOR
NATURAL FLAMINGO RESERVE

PSD

DRY CONSTRUCTION PROCESS



OWN PROJECTS - FRANK-ARK.COM/PORTFOLIO

PROYECTOS PROPIOS - FRANCISCO J. MARTINEZ BERNAL

TIMBER TOWER PFC

_2018

_LARGE BUILDING
MODELING
_UPV

RVT

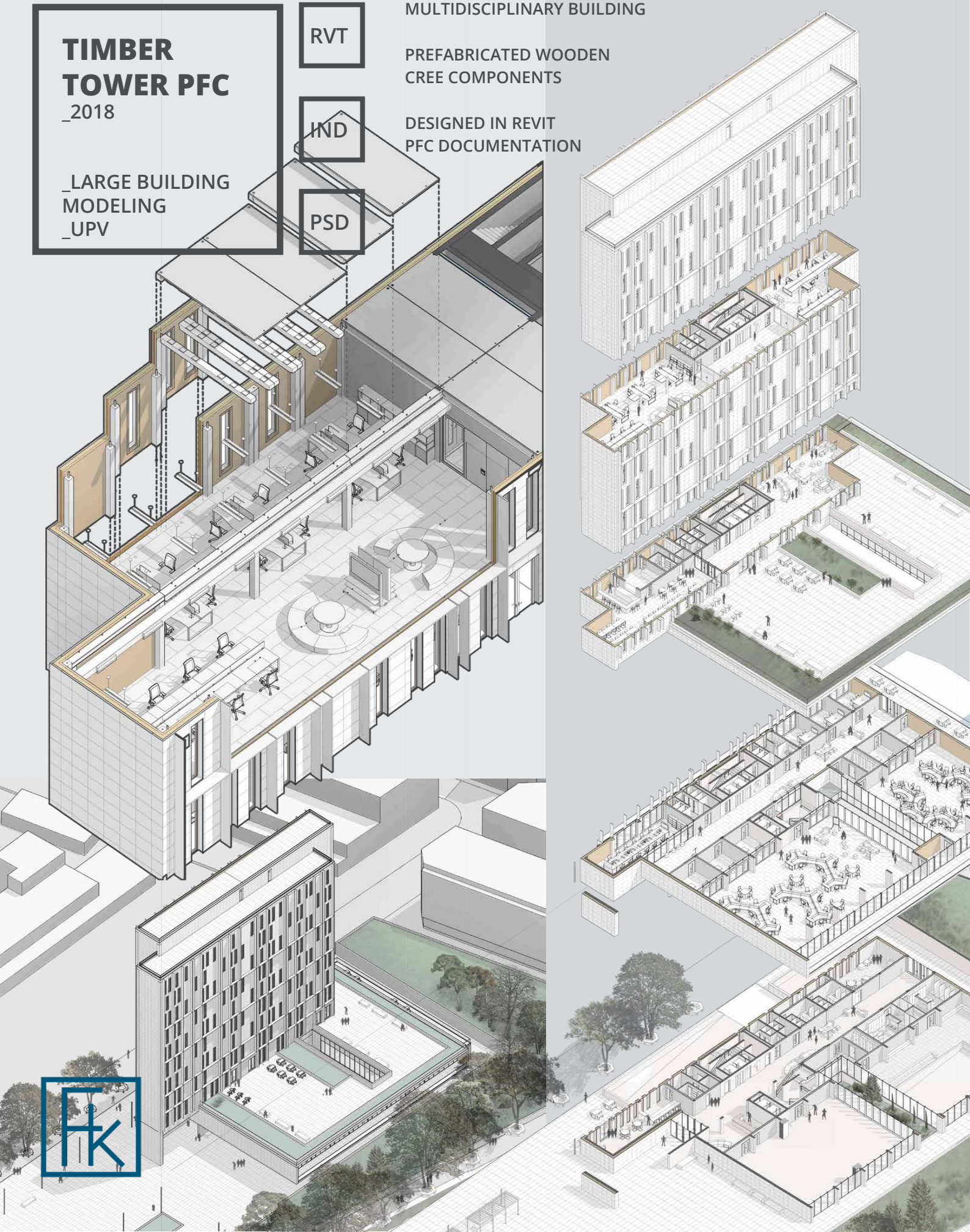
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PSD

MULTIDISCIPLINARY BUILDING

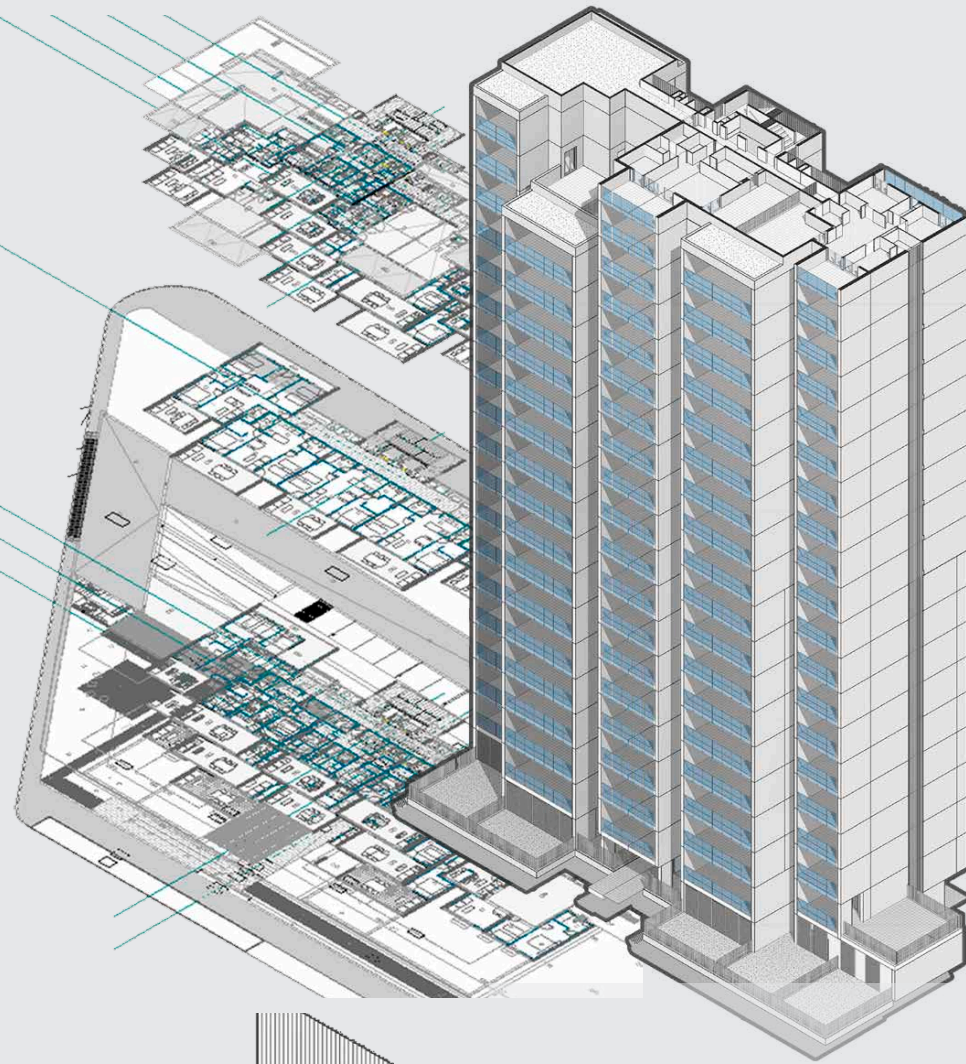
PREFABRICATED WOODEN
CREE COMPONENTS

DESIGNED IN REVIT
PFC DOCUMENTATION



BIM MODELER - FRANK-ARK.COM/PORTFOLIO

MODELADOR BIM - EXISTING PROJECTS



RVT

DWG

TORRE
CALPE
_2017

_BIM IMPACT STUDY

_FUSTER ARCHITECT

DIGITALIZATION
DWG INFORMATION

_ANALYSIS OF THE IMPACT
OF THE NEW
METHODOLOGY

_MODELING IN REVIT

CONSTRUCTION DRAWINGS
MEASUREMENT IN REVIT -
ARQUIMEDES



RVT

DWG

CONSTRUCTION
STUDY PCT
_2018

_BIM IMPACT STUDY
_UPV

aseo principal
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OWN PROJECTS - FRANK-ARK.COM/PORTFOLIO

PROYECTOS PROPIOS - FRANCISCO J. MARTINEZ BERNAL

OPEN OFFICE _2016

_SMALL
_PREFABRICATED
_BUILDING
_UPV

RVT

DWG

OPEN OFFICE BUILDING

FAMILIES CREATED BASED ON PATENT
PREFABRICATED FORGINGS
SIGNATURE AND KIELSTEG

DRY MOUNTING DESIGN

