OCEANE DURAND-MANICLAS

Email: durand-maniclas@ibi.baug.ethz.ch   **Telephone: +41 778.088.710**

EDUCATION

MSc Building Information Modeling & Digital Transformation (Reference upon request)

University of Liverpool (UK) | 2023-2024
(Excellence scholarship recipient - Vice Chancellor) - Graduated First Class
Additional modules in Digital Fabrication & Parametric design

Bachelor of Interior Architecture

Intérieur Déco, L'Institut d'Architecture de Design et du Paysage (LIADP) (FR) | 2021-2023
(Graduated with distinction)

Digital-Art

Academie des Beaux-Arts de Tournai (BE) | 2012-2016

EXPERIENCE

Architectural Intern

Aectual (NL) | 2024

Over two months, I performed an intership in a architetural comany specialised into additive manufacturing and material circularity. I worked on several project, including deep research on EPD and sustainability strategy, as well as participate at the design for the Bienale of Venice 2025.

Design Your Future Program

University of Liverpool (UK) | 2024

In this shortlisted program, conducted by the school of management at the University of Liverpool, I performed my skills in the Creation of Business Plan, Marketing, Finance and Accountancy, and Oratory. My entrepreneurial project launched the concept of modular furniture fostering Material Reuse, and digital (re)manufacturing.

Architectural Designer Freelance (Reference Available)

OD Design & Architecture (EU) | 2020-Ongoing

As a freelancer, I contributed and managed several architectural and design projects such as Eco-houses, Heritage building repurposing, Furniture design, Design installation.

Volunteering on construction site

Workaway | 2017-2022

Around the world, I volunteered on building sites where I learned joinery, and carpentry skills. These projects include, a Tiny-house in New-Zealand, a Farm renovation in Ontario,Canada, a Cottage renovation in Wales.

Architectural visualiser (Reference Available)

3dstudio.fr (BE) | 2014-2015

On a part-time base, I assisted the 3D expert in administrative tasks, image quality checking, 3D rendering, and 2D plans.

TECHNICAL SKILLS

BIM Modeling: Archicad, Revit
Clash detection: Solibri
4D Simulation: Synchro
3D Modeling: Sketchup, Rhinoceros, 3DS Max
Grasshopper plugins: Ladybug, Honeybee, Karamba, Parakeet, Waverbird, Ameba, Robots.
Generative design: Midjourney
Sustainability: One Click LCA, Madaster
Adobe: Illustrator, Photoshop
Mixed/Virtual Reality Modeling: Gravity Sketch
Computer Vision: Matlab, Open3D, Cloud Compare.
Reality Capture: LiADR, Photogrammetry

STANDARDS

ISO 19650, RIBA Plan of Work, BS EN 15978

CERTIFICATIONS

Certificate in Business Management Fundamentals   EPFC (BE) | 2015-2016
MathWorks Computer Vision Engineer Professional Certificate COURSERA | In Progress

LANGUAGES

English: C1	**French:** Native	**German:** A2

FULFILMENTS

Writings

Durand-Maniclas, O. (2023) Computational methods and digital fabrication to improve productivity and HBIM workflow in architectural heritage: A case study on the Sagrada Familia Basilica. Accessed at:

https://www.academia.edu/122035584/Computational_methods_and_digital_fabrication_to_improve_productivity_and_HBIM_workflow_in_architectural_heritage_A_case_study_on_the_Sagrada_Familia_Basilica.

Exhibition & International Architecture Competitions
1. Eco Flex Brick , Degree Show, 2024, School of Architecture, University of Liverpool
2. The Leaf - 4D Printing- , Degree Show, 2024, School of Architecture, University of Liverpool
3. Chair Design Competition, 2023, Buildner.
4. Tiny-House Competition, 2022, Volume Zero.