

# Massimiliano Di Lecce

## Summary

### Yacht Design

- Rhinoceros for 3D interior and exterior design.
- AutoCAD for General Arrangement plans.
- Delftship for hull modelling from reference arrangement plans, hull fairing, body plans.
- Reverse Engineering 3D hull from point clouds.
- Nesting for interior and exterior wooden furniture.
- Management, processing, design, development, Maritime Regulations

### Rapid prototyping

- Use of rapid prototyping techniques in relation to materials employed and quality of models needed.
- Techniques: Multi Jet Modeling, Fused Deposition Modeling, Stereolithography.
- Hardware: Quda, MakerBot Replicator 2X, Kentstrapper Volta Beta, PowerWASP EVO, DeltaWASP 40×70, Stratasys Objet Eden260V, Maestro 3D Desktop Scanner, CNC Milling Machine, Vacuum Forming.
- Software: Cura, Repetier-Host, Autodesk 123D Catch.

### Sustainable Design

- Bio-inspired and eco-innovative designs that satisfy market needs in clever and sustainable ways; creation of designer products from recycled aluminum, wood, cardboard, paper and other waste materials.
- Cradle to Cradle Design, Sustainability-Inspired Design, Bioplastics, Biomaterials, Biomimetics, Ecodesign, Biodesign, Naturalistic Engineering.

### Product Design

- Print-Ready 3D Models, Rendering, Product Naming, Experience Design, Interior Design, Emotional design (market and ethnographic research to identify buyers needs and desires to inspire designs that influence purchasing decisions).
- Autodesk 3ds Max, Rhinoceros, Mental Ray, V-Ray, Corona Renderer, RhinoGold, Photoshop, Illustrator.

### Teaching and coaching

- Design: design-driven innovation, plastics and their applications, cutting-edge materials and techniques, emotional design, product design, sustainable design, rapid prototyping, history of design, ethnographic research.
- Sustainability: sustainable development, renewables, ecology, biology, geology, creative reuse of waste products, recycling and waste sorting techniques.

## Experience

### **PHD Researcher**

Università degli Studi di Genova

Nov 2023 - Present (9 months)

PhD in Naval and Nautical Design

## **IRIDE Interior Designer**

Iride Srl Yachting

May 2023 - Aug 2023 (4 months)

- Rhino 3D
- AutoCAD
- V-Ray
- Nesting
- SolidWorks

## **Yacht designer**

NAS Malta

Sep 2022 - Apr 2023 (8 months)

- 3D Rhino modelling:
  - 3D superstructure shaping
  - 3D detail modelling
  - 3D hulls from Delftship reference models or lines plans
- 2D General Arrangement plans
- Presentation of 2D arrangement plans in Photoshop.
- Delftship:
  - Hull modelling from reference arrangement plans
  - Hull fairing
  - Tank modelling
- V-Ray – presentations and 3D representations of the projects

## **Design Consultant - Owner**

Ideativa (Design and environmental sustainability consulting)

Jun 2016 - Jul 2022 (6 years 2 months)

- Self-owned Quda 3D printer for rapid prototyping (FDM), 1000 pieces printed. Creation of 3D printing ready models, product naming, 3D models of yachts, sports watches and glasses. Employment of new recyclable, biodegradable and versatile plastics to reduce environmental impact and increase sustainability.
- Interior design consulting, renderings for architecture studios, 3D designs of interior decor products.

## **Prototype Designer**

Me.P.S. (Rapid prototyping of medical and aerospace products)

Oct 2014 - May 2016 (1 year 8 months)

- Rapid prototyping (Multi Jet Modeling) of aviation industry, orthopedic and orthodontic products; glasses, clocks, chess pieces, pens, jewelry.

## **Product Designer**

Feb 2013 - Jul 2014 (1 year 6 months)

- 3D printers assembly with Arduino hardware, 3D modeling and printing (FDM technique), product design. Projects ranging from gadgets to fashion accessories. Special project: self watering vase.

- Monitoring proper functioning of laboratory equipment, repair or replacement of damaged parts, ensuring availability of necessary materials, supporting colleagues in usage of equipment.

## Lighting Designer

Palagi Marine Lights (Yacht lighting design and production)

Apr 2011 - Nov 2011 (8 months)

- Reading and berth lamps, indoor and outdoor courtesy lights, interior and exterior ceiling lights, awning lights, indoor wall lamps.
- Business development at the 2011 Monaco Yacht Show trade fair.

## Education



### Quasar Design University

Italian Master in Yacht design

Jul 2021 - Feb 2023

360° boat design: from the lines plan to the interior furnishings, General Arrangement Drawing, Maritime Materials & Structural Components, management, processing, 2D Cad/3D modelling, Maritime regulations

### Università San Raffaele - Roma

Bachelor of Arts in Industrial Design

Specialization: How design's added value may influence purchasing decisions.



### Politecnico di Milano

Higher education course of "Design for Plastics", Industrial and Product Design

Jan 2012 - Jul 2012

Manage the design and development phases of the product in polymeric material, both on a cultural and technical-scientific level, as well as to follow the prototyping and manufacturing processes.

### Readytec

3D Graphic Design

3D modeling of interiors and exteriors, photorealistic renderings.



### Istituto Europeo di Design

Sustainable Creative Decor

Creation of designer products from waste materials: rocking bench made of scrap wood for "Caffè Letterario Le Murate, Florence", lamp made of recycled cardboard, chair made of cork.

### Formedil-Bari

Ecocompatible Naturalistic Engineering

Scientific and technological evolution of biocompatible materials; soil defense and conservation by means of naturalistic engineering techniques; surveying the implementation of conservation practices; collection of data for field offices to develop structural solutions.



## **Università degli Studi di Bari**

### **Master of Science in Natural Sciences**

Specialization: Conservation of nature and its resources, development of innovative techniques for sustainable development.

### **Skills**

Progettazione di prodotto • Rhinoceros • nesting • SolidWorks • Working Experience • Design Studio • Spoken English • Construction Drawings • DELFTship • AutoCAD