



# Alex Christensen

LEAD DESIGN ENGINEER

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## SUMMARY

A highly skilled Lead Design Engineer with 5+ years of expertise in CAD marine design and upholstery. My experience encompasses designing and manufacturing a wide range of marine objects, including luxury upholstery, boat parts, and stainless steel works.

At "Interiors and Coverings," my Lead Design Engineer position developed into a role which included my successful leadership of all marine upholstery projects from initial design to final installation. During this time I have also played a key role in the business management of sales, quoting and client and vendor relations, project management and trainee development.

## SKILLS

Rhino CAD Software	● ● ● ● ●	Project Management	● ● ● ● ●
Keyshot rendering software	● ● ● ● ●	CNC Machinery handling	● ● ● ● ●
Using a Proliner	● ● ● ● ●	Handheld power tools	● ● ● ● ●
3D Printing (all materials)	● ● ● ● ●	Laser Cutting	● ● ● ● ●
3D Scanning (Artec Ava and Leo)	● ● ● ● ●	Workflow management	● ● ● ● ●
Solidworks CAD software	● ● ● ○ ○	Client communications	● ● ● ● ○
Photoshop	● ● ● ● ●	Quoting and budget management	● ● ● ● ○
Upholstery	● ● ● ● ○	Site measuring	● ● ● ● ●

## EXPERIENCE

### Lead Design Engineer

**Interiors & Coverings** Jan 2019 - May 2023

Lead Design Engineer and upholsterer, responsible for managing all marine upholstery projects from initial design to final installation on behalf of the Company Director with a team of five. Duties included;

- CAD measurement and design [softwares: Rhino, MPanel, Photoshop, Keyshot rendering software]
- Site measuring using a pro-liner and 3D scanner
- Installation of covers and interiors on super yachts
- Detailed marine upholstery and trimming for luxury yachts and vehicles, including full renovations of 100ft + Azmuts and Nordhavns
- Project management and coordination
- Sales and client consultations including selection of fabrics, rendering of virtual concepts for client advertisements and price negotiations
- Vendor relationship management with boat builders, painters, stainless fabricators and all other suppliers
- Drafting and providing quotes for all projects
- Material orders and budgeting
- Team leadership, workflow management and upholstery training for 4 workshop staff and 1 office team member
- CAD software training and supervision for new and junior employees
- Trimming training and supervision for new and junior employees

## Design Engineer

**Interiors & Coverings** Sep 2017 - Dec 2019

Design engineer and trainee upholsterer working directly with the Company Director to design and manufacture marine interiors and coverings. Duties included;

- CAD measurement and design [softwares: Rhino, MPanel, Photoshop and Keyshot]
- Installation of covers and interiors
- Marine upholstery and trimming

## Designer / Prototype Developer

**Dot Dot Limited** Oct 2016 - Mar 2019

Designing and manufacturing prototypes for Dot Dot Limited's VR and interactive installations. Duties included;

- Client consultation and coordination
- Concept development and CAD design
- Manufacturing physical prototypes using 3D printing and carpentry etc.

## Prop Designer and Developer

**Weta Workshop** Oct 2015 - Mar 2016

Working across several teams within Weta Workshop supporting prop development for international films including Thor Ragnarok, Ghost in the Shell and Power Rangers. Duties included;

- Building physical props using power tools such as; sanders, grinders, woodworking tools, drills etc.
- Operating large machinery such as lathes, welders, laser cutters and CNC machinery
- Air brushing and artistic decoration of props

## Trades Assistant

**Eastbay Engineering** Oct 2014 - Mar 2015

Supporting tradespeople in a Metal Fabrication Workshop. Duties included;

- Assisting tradesmen as required for their daily tasks
- Operating power tools and machinery such as; lathes, welders, drill-presses, CNC machinery and hand tools

## PROJECTS

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### Elective Wave - 40ft Electric Wave Boat Prototype

**Lead Design Engineer** Sep 2022

As Lead Design Engineer for this project, I designed all interior upholstery for a bespoke 40 foot electric wake boat valued over \$2million. The boat used prototype electric engines and is the first of its kind in the world - and so the brief required interior designs and models that matched its innovative eliteness and rarity. My role in the project included;

- Consulting and meeting with clients to prepare an initial concept
- Developing the concept using CAD modelling and rendering a series of interior designs that were aesthetically on-brand, durable and practical for marine environments
- Site-measuring all relevant planes of the boat using an Artec Leo 3D scanner

### Teariki Moana - 65ft Luxury Party Boat Design

**Lead Design Engineer** Aug 2022

Designing, in collaboration with the client (Rarotonga Airlines) an initial concept for a 65 foot luxury party boat valued over \$2.5million to be based in Rarotonga. The boats design required amenities including a bar, kitchen, bathroom and large seating/party area with unique multi-purpose upholstery and a bespoke rooftop.

As Lead Design Engineer I created all initial concepts for the boat's overall design and layout, as designing all interiors and arranging the manufacturing of the upholstery and bespoke rooftop. This required meticulous attention to detail.

My role in the concept-stages of this project was;

- Attending and participating in all client meetings alongside the Company Director

- Initial concept development and design sketches within set timeframes to support client to reach final decisions/vision for the boat
- A series of CAD designs rendered realistically for clients to use in internal pitches
- Rendering poster images for the client's use in magazines and external advertising

My role in the design and manufacturing of the bespoke rooftop was:

- Initial concept and brainstorming of design solutions
- Attending and participating in all client meetings alongside the Company Director
- Conducting a digital 3D site measure using Prodim Proliner tools
- CAD design of roof covering
- Remote project management overseeing the manufacturing of the roof in Rarotonga
- Test-installations of the roof structure
- Measuring and ordering several series of bespoke roller-blinds

## **Awaawaroa Bay House - Architectual Fabric-Covered Dwellings**

**Design Engineer** Jan 2020

Contracted as the Design Engineer, I designed two exterior canvas facades on a property designed by renowned Cheshire Architects, with a total value exceeding \$2million. The property consisted of three separate dwellings, two of which required bespoke "cloak" canvassing designs in order to help blend them into their natural surroundings on Waiheke Island, New Zealand.

My role in the project included;

- Preparing initial concepts and negotiating functionality versus aesthetics to design successful, practicable solutions
- Attending and participating in all client meetings alongside the Company Director
- Conducting a digital 3D site measure using Prodim Proliner tools
- CAD design of all individual "cloaks" for each dwelling
- Project management overseeing the manufacture of each individual cloak
- Two-day installation of all cloaks on Waiheke Island in a team of 2, with the Company Director

## **EDUCATION**

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### **Masters of Design Innovation in Industrial Design**

**Victoria University, Wellington** Feb 2016 - Dec 2017

### **Bachelor of Design Innovation in Industrial Design**

**Victoria University, Wellington** Feb 2013 - Nov 2015

## **LANGUAGES**

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English

