

CV

GERARDO CAMBRONERO

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Portfolio | LinkedIn | GitHub

EDUCATION

INDUSTRIAL DESIGN

Bachelor of Science
University of Houston

APPLIED SCIENCE & MECHANICAL ENGINEERING

Technical Degree (CAD Design)
ITT Technical Institute

MECHANICAL ENGINEERING

Associate of Science
Miami-Dade Community College

FULL STACK DEVELOPER

Houston Coding Bootcamp
University of Texas

EXPERIENCE

CHIEF DESIGN OFFICER | FOUNDER

Xcel Design Studios, Inc. Jan 2015 – Present. Spring, TX

Founder and principal designer of Xcel Design Studios, Inc. a design consulting firm based in Houston, TX. Design consultant for primary clients *SeaDog Systems, Inc.* and *Global Oceanic Designs, Inc.* Currently, XDS is involved in the design and development of new wave clean-energy technologies that will impulse sustainable energy to the next level. The companies development focus is on clean energy systems, future living structures, and the design and development of subsea habitats. Invent, design, develop and prototype tomorrow's clean wave-powered energy converter systems. Research and explore new infrastructure systems for future transportation and city development. Research new technologies as applied to future clean energy systems and future building techniques.

UX DESIGNER & FULL STACK WEB DEVELOPER

Consultant. Aug 2018 – Present. Spring, TX

Apply web technologies such as HTML, CSS, Bootstrap, Javascript, and jQuery to design, develop, implement, and maintain all aspects of web design. Implement design expertise to create amazing solutions to ill user experience design problems. Drive an iterative approach to prototyping, evaluation, testing, validation, and refinement of web design projects to ensure the targeted solution set is desirable, feasible, and viable.

LEAD INDUSTRIAL DESIGN CONSULTANT

Ensign Energy Services. Jan 2015 – Jun 2015. Houston, TX

Industrial and UI/UX design to develop next-generation ADR 1500S class rigs interface for Ensign's rigs fleet. Implemented visual design and human factors principles to enhance the user experience for rig drillers and the design of a new control cabin and drilling controls console. Conducted extensive field research including user interviews, immersive research, observational research, equipment usability testing, and repetitive task analysis for the collection and delivery of design research insights to determine user's needs and project validation and created a User-Persona to identify specific needs for our target user (Oil rig drillers). Continuously collaborated in specialized multidisciplinary team meetings making daily design progress presentations to the senior design management team and presented design proposals to set daily project

direction. Implemented design methodologies (similar to "Agile" methodology) to maintain a consistent workflow through iterative and incremental design cycles. Presented design progress at daily team meetings in order to set a daily project direction. Worked on ideas as part of a team and developed design concepts using CAD (computer-aided design). Provided regular and timely reporting of project progress and proactively manage foresee project risk. Effectively managed any changes to the project without unduly affecting the stated objectives, benefits, and overall intent and continually monitored project progress and determined timeline development for each design task.

ARCHITECTURE DESIGN ENGINEER

Advent Firm. Mar 2014 – Jan 2015. Houston, TX

Principal designer in charge of designing exhibit and trade show booths and displays for customers across a wide range of markets worldwide. Designed projects from conceptual development through final design development including construction prints for all active projects. Implemented ergonomics and human interaction principles to design more functional projects. Developed schematic design presentation materials (technical drawings, 3D models, renderings) and collaborated with the Marketing Department to create advertising collateral and packets for client review. Directed fabrication personal during the construction and completion of all designs. Contacted vendors, ordering materials and parts as required by each project. Worked closely with a multidisciplinary team of graphics designers, fabricators and installers to refine designs for production, assembly, and install with an emphasis on integrating quality and cost control into each project. Worked with vendors on all details of the projects from material samples through production schedules and quality control.

INDUSTRIAL DESIGNER

Sumec North America. Contract. Oct 2012 – Feb 2014. Spring, TX

Consumer goods designer for the power and garden tools industry. Creative thinking and visualization of products to improve and innovate new and existing products for the industry's market. Developed a more US market-friendly product line for small-chore cultivators. Created both low-fidelity and high-fidelity design deliverables (e.g. functional prototypes, 3D prints). Occasionally travel to production facilities and evaluating the feasibility of production.

INDUSTRIAL DESIGNER

Techtronic Industries, Inc. Internship. May 2011 – May 2012. Anderson, SC

Designed and developed products under brands like the Ryobi, Ridgid, Homelite, PowerStroke, and Craftsman for The Home Depot power tool market. Reviewed, researched, and evaluated the product landscape translating these findings into new product offerings. Prepared design assets across all types of digital mediums for product presentation and market launch. Reversed engineered existing tools to propose improvements and/or ideate new design concepts. Built advanced 3D parts and surface models to communicate design intent. Arranged meetings and liaising with engineers and other departments, including marketing, to discuss and negotiate appropriate production processes, costs, and commercial issues. Research materials, processes or market requirements. Manage external resources to deliver work on time and on budget.

SENIOR CAD DESIGNER

Innerspace Custom Storage Design. Sept 2000 – Apr 2006. Miami, FL

Created residential high-end storage systems for multi-million dollar homes. Designed furniture-specific mechanisms for optimal design functionality. Prepared construction drawings and supporting documents to develop a layout of the systems, components, and parts. Collaborated in the construction and installation guidelines of each project. Created cost and retail price sheets to build customer's proposals. Maintained CAD data files and created new CAD templates and block drawings as needed.

JUNIOR ENGINEER & CAD DESIGNER

Raymond Engineering. Nov 1997 – Dec 1999. Houston, TX

Analyzed architectural plans to design mechanical, electrical and plumbing (MEP) systems for apartment buildings construction. Evaluated job designing as required by fire Marshall and city engineers. Transfer of drawing files across multiple CAD platforms as needed by our clients.

PETTY OFFICER 2ND CLASS

United States Navy. Apr 1993 – Apr 1997. Mayport, FL

Performed various military duties. Helicopter Landing Safety Officer. Scuba and Saturation Diver.

DESIGN SKILLS

UX & Industrial Design Research Methodologies
User-Centered Design (UCD)
User-Experience Design (UX)
Human-Machine Interaction (HMI)
Human Factors

Ergonomics & Anthropometrics
Design & Usability Testing
2D Sketching & Wire framing
3D CAD Modeling & Rendering
Digital Prototyping

SOFTWARE KNOWLEDGE

Photoshop
Illustrator
InDesign
Adobe Xd
InVision
HTML
CSS

Javascript
jQuery
Bootstrap
React.js
Node.js
Express.js
API

JSON
AJAX
Firebase
Heroku
Git
GitHub
MySQL

MongoDB
SolidWorks
Fusion 360
Sketchbook
Keyshot
PhotoView 360

AWARDS & RECOGNITIONS

Magna Cum Laude Honors - University Of Houston
3rd Place Best Thesis Award - Industrial Design Society of America
Dean's List - University Of Houston
Honor Role - TTI Technical Institute

LANGUAGES

Spanish (Native)
English (Fluent)