## Tiger ChongSheng Guo

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**EDUCATION**

## Master’s Degree — *Design Innovation – Industrial Design Specialization*

*Mar 2019 – Jan 2021 Victoria University of Wellington, New Zealand*

## Bachelor’s Degree — *Design Innovation – Industrial Design Major*

*Mar 2016 – Oct 2018 Victoria University of Wellington, New Zealand*

**EXPERIENCE**

## MedTech Centre of Research Excellence — *Medical Robotics Designer*

*Mar 2019 – Present Auckland, New Zealand*

* Oversaw research and design of a Type 2B medical robotics system for upper-limb stroke rehabilitation.
* Championed the collaborative design effort between stakeholders including several leading neurophysiotherapists from Auckland University of Technology’s Rehabilitation Innovation Centre, two engineering teams from Callaghan Innovation and Exsurgo Rehabilitation, as well as numerous UX/UI designers.
* Documented the design and development process with respect to all stakeholders and team departments, including design files for FDA, TGA, Medsafe, CE, ISO, and IEC compliance purposes, as well as formal ethics processes with the New Zealand Government’s Health and Disabilities Ethics Committee.
* The device is expected to undergo patenting Q2 2021, of which I am the author of one of the three novel mechanisms being patented.
* Managed clinical testing, which suggested design intervention significantly improved acceptability, usability, and marketability of device. Currently contributing to the design development for a formal clinical case series to further validate findings.
* Collaborated with engineering teams and investors on preparing the device for mass production through DFM and OEM consultation from a design perspective.
* Personally oversaw supply chain of components and manufacturing, working alongside engineering teams to fabricate working prototypes, including CAD/CAM and CMF processes.
* The first 18 months of this role was completed to fulfil the requirements of my Master’s Degree and the accompanying research stipend. Subsequent time was completed as a research contract. Both were funded by MedTech CORE.

## World Design Consortium — *Industrial Designer*

*Jun 2019 – Present New Zealand, People’s Republic of China, Italy*

* Executed industrial design contracts to clients such as Export New Zealand, Wellington Chamber of Commerce, Business Central, Invacare New Zealand, UrbanGroup New Zealand, COC Design International, and Shwoop.
* Oversaw end-to-end design process including client consultation, negotiation of deliverables, design conceptualization and development, and quality assurance of end outputs.

## KeteKai — *Design, Marketing, and Procurement Officer*

*July 2020 – Dec 2020 Auckland & Hamilton, New Zealand*

* Managed the design of marketing materials for flagship product launch.
* Oversaw end-to-end supply chains from China, including negotiation of supply and trade terms.
* Liaised directly with executive leadership and owners on business strategy and logistical dispositions.
* Procurement of novel supplier relationships and products reduced packaging costs by 39%.
* Flagship product launch successfully increased sales by over five-fold, allowing market penetration into Auckland.

## United Nations Youth Association — *National Design Manager*

*Apr 2019 - Jan 2020 Wellington, New Zealand*

* Ensured brand compliance and quality of all media output by the organization as an official subsidiary of the United Nations Associations of New Zealand.
* Managed over 30 subordinates in media teams across nation-wide events, including New Zealand Model United Nations 2019, where 20+ embassies were engaged.
* Directly collaborated with national executive team on establishing effective marketing and media strategies.

## Victoria University of Wellington — *Teaching Assistant*

*Feb 2019 - Jul 2020 Wellington, New Zealand*

* Taught the 2nd year Industrial Design cohort through INDN 211, 212, 321.
* Oversaw CAD/CAM training as the primary tutor for the subject in all three papers.
* Collaborated with senior lecturers in producing video tutorials for CAD/CAM and rendering software processes.

## Victoria University of Wellington — *Research Assistant*

*Apr 2019 – Dec 2020 Wellington, New Zealand*

* Research Assistant to three senior faculty members: Director of Smart Interactions, Director of Landscape Architecture, and Post Doctorate Healthcare Design Lecturer.
* Undertook academic research into relevant fields, as well as assisted in the manufacturing and assembly of experimental medical equipment such as novel MRI systems.

## Auckland University of Technology Student Association — *Allied Designer*

*Apr 2018 - Mar 2019 Auckland, New Zealand*

* Collaborated directly with student association president for the design of O-week 2019, which saw the increase of event capacity by 5-fold, and event turnout by 3-fold compared to 2018.
* Championed the venue redesign efforts which were used for event deployment as well as fundraising purposes.
* Developed a succinct pitch alongside leadership to effectively implement visual elements resultant of redesign efforts.
* Fundraising amassed a $200,000 budget for the event, which was the largest O-week budget in AUT history.

## Self Employed — *Event / Product Photographer and Videographer*

*Jan 2016 – Present New Zealand*

* Side-occupation predominantly documenting weddings, birthdays, portraits, and brand marketing material.
* Major corporate clients include AgainAgain, Bats Theatre, and Six Degrees Festival.

**SKILLS & INTERESTS**

**Software Skills:** AutoCAD Fusion 360, SolidWorks, CAMWorks, Meshmixer, GrabCAD Print, UPStudio, Keyshot, Adobe Photoshop, Illustrator, Premier Pro, After Effects, XD, Lightroom, Bridge, Camera RAW, Autodesk Sketchbook, Arduino.

**Manufacturing Skills:** 3D printing (FDM, SLS, SLA, MJF, Polyjet, Multi-Jet, Voxel), laser-cutting, CNC routing, lathing, joinery, silicone molding, injection molding, lamination (wood and composites), surface treatment (sandblasting, acrylic and enamel painting, metalizing).

**Languages:** English, Mandarin, Shanghainese

**Interests:** Cooking, painting, woodworking

**AWARDS**

## Special Mention – *Entertainment Product 2021, German Design Awards, Berlin, Germany*

## Special Mention – *Kitchen Product 2021, German Design Awards, Berlin, Germany*

## Finalist – *Best Design Awards 2020, Designers Institute of New Zealand, Auckland, New Zealand*

## Silver Muse Design Award – *Product Design 2020, International Awards Associate, New York, United States*

## A’ Design Award – *Bakeware, Tableware, Drinkware, and Cookware 2020, A’ Design Award, Como, Italy*

## Designer of the Year Nominee *2019, International Association of Designers, Como, Italy*

## Gold Novum Design Award – *Jewelry Design 2019, Novum Design Award, France*

## A’ Design Award – *Digital and Electronic Devices 2019, A’ Design Award, Como, Italy*

## Dean’s List *2016 – 2018, School of Design, Victoria University of Wellington*

## Outstanding Scholarship – *Design and Visual Communication 2015, New Zealand Qualifications Authority*

## Top in New Zealand – *Design and Technology, Advanced Level 2015, Cambridge International Examinations*

## Top in the World – *Design and Technology, Advanced Subsidiary Level 2014, Cambridge International Examinations*

**REFERENCES**

## Dr Edgar Rodríguez Ramírez

*Associate Professor
Victoria University of Wellington*

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