

Matias Moragrega

Industrial Designer | Creative Technologist

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Summary

Industrial designer working at the point where physical products meet the technology that makes them. Experience across CMF, additive manufacturing and creative technology, with a track record of building what I design, from CAD to firmware to the machine itself. MA Design for Industry 5.0 at Central Saint Martins (Distinction), Autodesk Research Scholar 2026, exhibited at SaloneSatellite during Milan Design Week 2026.

Skills

Industrial design: CMF specification, design for manufacturing, rapid prototyping, mould making, packaging design, technical drawing

CAD and 3D: Fusion 360, Rhino, Grasshopper, SolidWorks, Blender, KeyShot, 3D printing (FFF), CNC milling, laser cutting

Creative technology: Arduino, C++, Processing, p5.js, Python, custom PCB design (Eagle), firmware (QMK, RepRap-Firmware, Klipper), physical computing, IoT prototyping

Digital design: Figma, Adobe Illustrator, UI/UX for physical products, digital signage systems

Languages: Spanish (native), English (full professional)

Experience

Creative Technologist & Product Designer | Distrito Sur

Sep 2024 – Feb 2025

Remote

- Put a digital signage hardware framework into service running media content for 8 clients in a single building, designing and building both the hardware and the software that drives it.
- Brought 7+ product lines to manufacture for 10+ clients, wayfinding signage, corporate awards and custom merchandise among them, by taking each from the market and competitor research that set its definition and price, through concept and CMF specification, to production.
- Took signage, awards and merchandise through print and installation remotely by preparing print-ready artwork, managing print specs and supplier proofs, producing installation-ready drawings and fielding the installers' technical queries.
- Simplified logistics for custom physical goods after new tariffs cut into margins by relocating production from 15+ vendors and suppliers in China to localised manufacturing in Mexico.
- Kept product quality high across those 15+ suppliers by inspecting production units in person at supplier factories and running remote QC with the overseas vendors.
- Secured renewals from over 90% of clients, on high-volume unit orders, through the longevity and quality of the products delivered.

UX/UI & Digital Designer | Distrito Sur

Aug 2023 – Sep 2024

Mexico City

- Produced the graphic assets and interface layouts for interactive digital displays across one building's floors, and for digital spaces including the website and social media, designing them in Illustrator and Figma.
- Took a digital signage interface for real estate portfolios live by programming it and deploying it through enterprise SaaS platforms.
- Held over 90% uptime on a screen running inside a saturated network by working with hardware teams to resolve around 4 UX/UI and playback incidents.

Lead Product Designer | RtV6 (self-initiated start-up)

Jun 2023 – Aug 2023

Mexico City

- Took a consumer 3D printing accessory from concept to a fully shipped 100-unit run in 3 months by designing it end to end, from the market and competitor research that set its definition and price, through CAD, technical drawings and manufacturing simulations, to print-ready packaging.
- Funded it at 131% of goal on Indiegogo with 17 backers and placed it with 2 retail partners, one in Europe and one in the US, by managing timelines, marketing and manufacturing to a strict budget.
- Shipped all 100 units with their support material in place by producing the whole launch kit myself: the campaign and how-to video, in-box instructions, packaging inserts, and the FAQ and troubleshooting answers.
- Handed manufacturing, distribution and the IP to a licensee under a global, royalty-based commercial licence that I landed by reaching out to companies and pitching while the first 100 units were still shipping.

Lead Hardware Designer | KeyQuest Keyboards (self-initiated)
Mexico City

Jan 2023 – Jun 2023

- Sold out a 5-unit limited run of Enclave, a mechanical keyboard I designed and manufactured with a custom PCB and case, through a community auction with a \$150 base price.
- Drew 32 GitHub stars and a fork on github.com/keyquesttech/Enclave, the open-source release of the full Enclave design complete with production-ready manufacturing files, after writing and maintaining the project codebase and QMK firmware.

Digital Manufacturing Technician | CENTRO diseño, cine y televisión
Mexico City

Mar 2022 – Jan 2023

- Turned around some 10 jobs a day, 5 days a week, on an 11-machine fleet (2 laser cutters, 2 CNCs, 2 SLA and 4 FFF 3D printers, 1 vinyl cutter) plus hand-tool and electronics workspaces serving over 1,000 students, holding the whole fleet to 5 days of cumulative downtime by running the job queues.
- Cut the workshop's operating costs by handling maintenance, resolving machine errors and processing a successful RMA that saved multiple days of labour, roughly 2 days of service downtime and the cost of the replacement parts.
- Got 3 staff and at least 2 students a day operating the machines safely by training them on machine operation and workshop safety.

Selected Projects

Open-source 3D printer builds, Voron and RatRig

2023 – present

- Brought 4 printers to working order from a bare bill of materials, 2 custom builds of my own design taken from design to finished machine and 2 built on commission, by sourcing every part, assembling the structure, cutting and crimping the full wiring harnesses, wiring CAN bus toolheads and configuring Klipper on a Raspberry Pi.
- Contribute back to both the Voron and RatRig projects with mods, documentation and community support.

FullCTRL, manually controlled 3D printer

2025 – 2026

- A CAD-free 3D printer with no slicer and no G-code: the machine automates temperature, flow and speed while the operator drives the shape by hand. Built on Duet3D hardware, RepRapFirmware and custom macros.
- Exhibited at SaloneSatellite, Milan Design Week 2026; awarded an Autodesk Research Scholarship.

Scentient, IoT scent diffuser

2025

- IoT smart scent diffuser designed with the Central Saint Martins MBA: physical product, UI/UX app architecture and business models for market entry.

Enclave, open-source mechanical keyboard

2023

- Designed, programmed and manufactured end to end; released open source at github.com/keyquesttech/Enclave.

Education

MA Design for Industry 5.0, Distinction

Central Saint Martins, University of the Arts London, London

Sep 2024 – Jun 2026

BA Industrial, Product and Furniture Design

CENTRO diseño, cine y televisión, Mexico City

2019 – 2023

Awards & Exhibitions

- Autodesk Research Scholar, Autodesk, 2026.
- Exhibitor, SaloneSatellite, Milan Design Week, 2026.
- Exhibitor, UAL/CSM MA shows, London, 2026.