# DANIEL LOCATELLI

Architecture is a transdisciplinary field, and its future lies in using computational, co-designed, and cybernetic techniques combined with vernacular eco-friendly materials.

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# Experience

01/2024 → Present
## Software Developer
**BuildSystems GmbH, | Munich, Germany**
↳ The startup Urban Scale Timber became BuildSystems.
Web app Funding Calculator: Tech stack, UI/UX, and development of the in Angular 17. BuildSystems' website: development in Astro 4 leveraging Notion's API to have Notion as a content management system (CMS).

01/2023 → 12/2023
## Computational Architect
**Urban Scale Timber, Flügge Funding | Munich, Germany**
↳ The startup is now called BuildSystems.
Development of a toolbox in C# for Grasshopper; Data visualization with Power BI; Tech stack and UI/UX for the web app Circular Component Creator.

12/2021 → 12/2022
## Computational Architect
**ArtEnGineering GmbH | Schorndorf, Germany**
Algorithmic modeling and structural analyses of pavilions and artworks.

10/2020 → 11/2021
## Computational Architect
**Alfred Rein Ingenieure GmbH | Stuttgart, Germany**
Honorable mention Wiesbaden "Witterungsschutz Römermauer," algorithmic modeling.

12/2019 → 10/2020
## Research Assistant
**ICD/ITKE University of Stuttgart | Stuttgart, Germany**
Natural fiber structural test w/ Marta Gil Pérez; Carbon fiber winding w/ Christoph Schlopschnat; Design and modeling w/ Dylan Wood; ICD website migration w/ Tobias Schwinn.

03/2015 → 07/2019
## Computational Architect*
**Atelier Marko Brajovic | São Paulo, Brazil**
Conceptual design, project management, BIM modeling, traditional and algorithmic modeling, renderings, prototyping, digital fabrication, and contact with suppliers. *Intern until Dec 2016

06/2014 → 08/2014
## On-the-job Training
**California State University Long Beach | Long Beach, United States**
Project management, Site visits, BIM Modeling, Safety and Health Training Cal/OSHA Construction 10h.

06/2011 → 08/2013
## Graphic Designer
**Biomedical Science Institute, University Of São Paulo | São Paulo, Brazil**
Conceptual design, supervised project management, and organization of competitions.

# Education

10/2019 → 10/2021
## Master of Sciences
**ITECH University of Stuttgart | Stuttgart, Germany**
Building Across Scales: A Robotic Timber Fabrication System for On-Site Press Gluing

01/2010 → 12/2016
## Bachelor of Architecture and Urbanism
**Architecture and Urbanism College – FAU-USP | São Paulo, Brazil**
Architecture + Biomimetics + Algorithm

01/2014 → 12/2014
## Architecture Exchange Student
**Auburn University – CADC | Auburn, United States**

08/2013 → 12/2013
## Intensive English Program
**Auburn University | Auburn, United States**

# Scholarships

03/2021
## IntCDC Master's Thesis Grant 2021
**Cluster of Excellence Integrative Computational Design and Construction for Architecture (IntCDC)**
The Grant encourages excellent master's students to realize a first step toward a prospective academic career.

08/2013 → 12/2014
## Science without Borders
**Brazilian Federal Government**
A fully funded scholarship of one year at Auburn University, USA.

# E-Book

02/2020
## Design Computacional – Estratégias
A catalog of 30 computational design strategies with references.

# Skills

- HTML, CSS, JavaScript | Advanced
- SQL & NoSQL database | Advanced
- Angular framework | Intermediate
- Python| Intermediate
- C# | Intermediate
- Rhino + Grasshopper | Fluent
- Revit | Certified Professional
- Digital Fabrication | Advanced
- Adobe Package | Advanced
- UI/UX | Intermediate

# Peer-reviewed papers

06/2023
## Feedback-Based Design Method for Spatially-Informed and Structurally-Performative Column Placement in Multi-Story Construction
**5th Conference on Computational Design and Robotic Fabrication CDRF 2023 | Beijing, China**
Authors: Ekin Sila Sahin; Daniel Locatelli; Luis Orozco; Anna Krtschil; Hans Jakob Wagner; Achim Menges; Jan Knippers

06/2020
## Life Lamp: Connecting Design and People Through Emotion
**ECAADE 2020 Anthropologic | Berlin, Germany**
Authors: Daniel Locatelli; Leonardo Prazeres; Guilherme Giantini; Vitor Curti; Carlos Augusto Requena

11/2018
## High-Low as an expression of the Brazilian digital fabrication
**SiGradi 2018 Technopolitics | São Carlos, Brazil**
Authors: Daniel N Locatelli; Arthur H Lara; Ruy M O Pauletti; Thiago H Omena; Adalberto de Paula

09/2017
## Algorithmic design for traditional bobbin lace methods
**IASS 2017 | HAMBURG, GERMANY**
Authors: Daniel N Locatelli; Arthur H Lara; Ruy M O Pauletti; Thiago H Omena

# Tutoring

06/2019 & 07/2019
## Models byNature
**Workshop | São Paulo, Brazil**
This workshop sought to connect computational design practices with natural phenomena, addressing associative modeling, biomimetics, and visual programming language.

12/2018
## Tensegrity Workshop
**Atelier Marko Brajovic internal workshop | Paraty, Brazil**
The team that formed the Atelier Marko Brajovic got together to develop a tensegrity collectively.

06/2018
## Adaptive Grasshopper Workshop
**XIV SAU UNEMAT | Barra do Bugres, Brazil**
The students had the opportunity to choose one design approach to learn between many other well-known methods in the computational design field: in this case, the "Exoskeleton."

04/2017
## Grasshopper & Kangaroo Workshop
**Porto FabLab | São Paulo, Brazil**
The students learned to work with spring systems to simulate a cloth behavior.

02/2017
**Private Revit Lessons**
**São Paulo, Brazil**
Revit lessons from the basic principles to advanced techniques.

# Talks & Lectures

12/2023
**Vision Nachhaltigkeit**
**Graphisoft X | Online**

11/2023
**Arquitetura Computacional**
**Architecture and Urbanism course at UFT | Online**

09/2023
**Arquitetura Computacional na Alemanha: Estado da arte**
**Architecture and Urbanism course at IFPR | Online**

03/2022
**Digital Futures Portuguese Talk**
**Online**

11/2020
**Computational Design: Strategies**
**UNIP Sorocaba | Online**

10/2020
**Computational Design: Strategies**
**PUC Minas | Online**

07/2019
**Architecture + Biomimetics + Algorithm**
**Architecture and Urbanism Course at IFRO | Vilhena, Brazil**

03/2019
**Emotional Design and Technology**
**SEBRAE TALKS, MOVELPAR 2019 | Arapongas, Brazil**

09/2018
**Parametric Design Inspired byNature**
**Semana Design Rio 2018 | Rio de Janeiro, Brazil**

08/2018
**Biomimetic Geometries**
**Tátil | Rio de Janeiro, Brazil**

06/2018
**Architecture + Biomimetics + Algorithm**
**XIV SAU UNEMAT | Barra do Bugres, Brazil**

08/2017
**Architecture + Biomimetics + Algorithm**
**Istituto Europeu di Design (IED) | São Paulo, Brazil**

12/2016
**Form-finding with Grasshopper**
    **II Structured Shell Meeting | FAU/POLI USP, São Paulo, Brazil**

# Certifications

07/2023 → 10/2023 (final project pending)
**CS50's Introduction to Computer Science**
    **Harvard University & edX.org**

08/2018
**PYTHON | 6.00.1x Intro to Computer Science and Programming Using Python**
    **MITX & edX.org**

09/2015 & 09/2016
**Revit Architecture Certified Professional Exam**
    **Autodesk University Brazil 2016 | São Paulo, Brazil**

07/2013
**Safety & Health Training**
    **CAL/OSHA Construction 10 Hours**

# Freelance Works

05/2018
**Life Lamp**
    **Concept by Estudio Guto Requena for Decimal**
    Computational designer responsible for the code.

12/2017 → Ongoing
**Margarita House Refurbishment**
    **House Refurbishment project | São Paulo, Brazil**
    Architect in charge of design.

06/2016 → 11/2016
**Le Sandwich: Restaurant Refurbishment**
    **Restaurant Refurbishment | São Paulo, Brazil**
    Principal architect in charge of design, production, bidding, and construction supervision.

# Courses and Workshops

06/2020 → 07/2020
**Intelligence**
    **Digital Futures World 2020**
    Tutors: Neil Leach, Antoine Picon, Sanford Kwinter, and Marrikka Trotter

11/2018
**Wiki-House: Generation and Digital-Material Construction**
    **Iberoamerican Society of Digital Graphics (SIGraDi 2018)**
    **São Carlos, Brazil**
    Tutors: Gonçalo Castro Henriques, and Andrés Passaro

09/2017

## Interfacing Architecture, Engineering, and Mathematical Optimization

**Symposium of the IASS 2017 | Hamburg, Germany**
Tutors: Thomas Wortmann and Judyta Cichocka

07/2017

## Parametric Design with Arduino and Grasshopper

**Electronic Language International Festival (FILE) | São Paulo, Brazil**
Tutor: Henrique Stabile

09/2016

## Workshop GH3 Galapagos

**Rhino Day | FAU-Mackenzie, São Paulo, Brazil**
Tutor: Victor Calixto

07/2016

## Digital Theremin with Arduino

**Electronic Language International Festival (File) | São Paulo, Brazil**
Tutor: Mauricio Jabur

07/2016

## Data in the Design Process

**Electronic Language International Festival (File) | São Paulo, Brazil**
Tutors: Dyego Digiandomenico, Gabriele Landim, Henrique Fischer

06/2016

## Introduction to Woodwork

**Fab Lab Livre SP | São Paulo, Brazil**
Tutor: Lucas S. M. Coutinho

06/2016

## Arduino & LEDS

**Fab Lab Livre SP | São Paulo, Brazil**
Tutor: Beatriz da Rocha

06/2016

## Electronics in the darkness

**Red Bull Station | São Paulo, Brazil**
Tutor: Lina Lopes

06/2016

## Basic Electronics

**Fab Lab Livre SP | São Paulo, Brazil**
Tutor: César A. G. de Alencar

05/2016

## Interactivity: Architecture and Responsive Design

**Fab Lab Livre Sp | São Paulo, Brazil**
Tutor: Ruairi Glynn and Grad Students from UCL

08/2011 → 12/2011

## Fundamentals of Computation with Processing

**FAU-USP | São Paulo, Brazil**

# List of Works at Atelier Marko Brajovic

01/2019 → 08/2019
## BlastU 2019
**Parametric set and interior design.**
**Ibirapuera bienal pavilion, São Paulo, Brazil**
Architect in charge of design and supervision.

06/2019
## Casa e Jardim Award 2019
**Scenic design**
**Pinacoteca de São Paulo, São Paulo, Brazil**
Architect in charge of the design and set-up follow-up.

04/2019
## Casa ITA
**House Design**
**Paraty, Brazil**
Architect in charge of the design.

02/2019 → 04/2019
## Itaú Rock in Rio 2019
**PARAMETRIC stage architecture**
**Rio de Janeiro, Brazil**
Architect in charge of the design and city code compliance (archived).

01/2019
## Embraer Pavilion
**Paris, France**
Architect in charge of the parametric façade.

12/2018
## Camper Thailand
**Parametric Interior Design**
**Thailand**
Architect in charge of the design (archived).

11/2018
## The First Blow | Embraer
**Augmented Reality Sculpture**
**T3 International Airport, São Paulo, Brazil**
Computational design support.

11/2018 → 12/2018
## Animale Jewelry
**Parametric Façade**
**Rio de janeiro, Brazil**
Architect in charge of the design.

07/2018 → 10/2018
## Hitchcock – Suspense Backstage
**Exhibition**
**MIS - Museu da Imagem e do Som, São Paulo, Brazil**
Renderings.

06/2018 → 11/2018
## Bar & Stage Heineken: Live Your Music
**Meca Festival | Itinerant**
Architect in charge of the parametric design, production, and supervision.

03/2018 → 04/2018
## Nike Air Guitar
**Interactive Installation**
**Red Bull Station, São Paulo, Brazil**
Architect in charge of the design, production, programming and supervision.

08/2017
## Tidelli Wave
**Installation**
**Tidelli showroom, São Paulo, Brazil**
Architect in charge of supervision.

01/2017 → 12/2017
## Homa Restaurant Refurbishment
**Interior Design**
**São Paulo, Brazil**
Architect in charge of design and production.

06/2017
## InsideOut
**Product Design**
**MOVECHO**
Architect in charge of the design (archived).

2016 → 2017
## House ASHA
**House Design**
**Paraty, Brazil**
Architect in charge of detailing and supplier contact.

03/2017
## O3 Pavilion
**Parametric Pavilion**
**Expo revestir 2016, São Paulo, Brazil**
Responsible for the form-find of the final shape and to extract the documentation necessary for production

10/2016
## Live Talks installation
**Installation**
**Live talks 2016, São Paulo, Brazil**
Intern in charge of the design studies, production, and supervision.

08/016
## Parada Coca-Cola
**Festival**
**Pier Mauá, Rio de Janeiro, Brazil**
Intern in charge of the code to extract the documentation necessary for production

04/2016
## Coca-Cola Taste of Fashion

**Set and interior design**
**São Paulo Fashion Week, São Paulo, Brazil**
Intern responsible for designing, coding, and producing a tensegrity light sculpture.

04/2015 → 02/2016
## Ekoa Park

**Ecological Park**
**Morretes, Brazil**
Supervised intern in charge of detailing the project.