



## RUI DE KLERK

DESIGN & COMPUTATION | ARCHITECTURE

NATIONALITY: Portuguese

DATE OF BIRTH: 27/04/1982

CONTACTS: [ruideklerk@campus.ul.pt](mailto:ruideklerk@campus.ul.pt)

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### SHORT BIO

Rui de Klerk holds a MSc degree in Architecture from the Faculty of Architecture, University of Lisbon (FAUL) since 2012 and is currently a PhD Candidate in Design and Computation applied to Architecture at the same Faculty, developing research on the subject of Semantic Design Systems, combining semantic web technologies (description logics) with production systems based on shape grammars.

He is a research fellow at Faculdade de Arquitetura (Universidade de Lisboa) with an FCT Doctoral Grant (SFRH/BD/131386/2017) since September 2017 and contributor investigator of architecture at the Research Centre for Architecture, Urbanism and Design (CIAUD) since 2015, where he was also Teaching Assistant in “Artificial Intelligence in Planning”, in the [Doctoral Program in e-Planning](#).

Following his research, Rui was part of the local organization of [LDAC2019 – Linked Data in Architecture and Construction Week](#), comprising a Summer School on Linked Building Data (LBD) and the 7th Linked Data in Architecture and Construction Workshop, which lead to him integrating the governance board of the [W3C Linked Building Data Community Group](#) from then on until February 2020. Rui was also in the organization of the [Design Computing Summer School 2018](#), where he was also an instructor of workshops #1 and #2, and regular DCG Lectures, and he is involved in the ongoing [Convex and Solid-Voids Research](#).

He has been teaching at Zigurat since February 2020 in the [Master Internacional em BIM Management](#) and later in the [Specialization Course in Parametric design with Visual Programming in BIM](#) (EN/PT) and the [BIM Management para Infraestruturas, Engenharia Civil e GIS](#), teaching generative design and parametric modelling in BIM, as well as visualization with real-time rendering software and VR with BIM. Recently, Rui was invited to integrate the advisory board of the [SECCLasS \(Sustainability Enhanced Construction Classification System\)](#) project.

From June 2016 until September 2017, he was a Research Fellow at CIAUD, integrating the research project [“Measuring Urbanity: densities and urban performance of extensive urban fabrics. The Portuguese case”](#) (CIAUD\_BI\_09/ EAT/04008), with an FCT/MEC grant. From April 2015 to May 2016 he integrated the research project [“TECTON 3D – Digital Mockup: Touching the 3rd dimension”](#) (PTDC/EEI-SII/3154/2012) with an FCT grant, working on the development of an application for procedural modelling in immersive virtual reality environments.

**Linkedin:**

<https://www.linkedin.com/in/ruideklerk/>

**GitHub:** <https://github.com/deKlerk>

**Hops Server:**

<https://hops-online.herokuapp.com/>

**ORCID:** [0000-0002-6930-8543](https://orcid.org/0000-0002-6930-8543)

**Scopus Author ID:** [57195063851](https://orcid.org/57195063851)

**Ciência ID:** [6B10-81EE-2DAE](https://orcid.org/6B10-81EE-2DAE)

## ACADEMIC TRAINING

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PhD in Architecture – Field of Computation  
Faculty of Architecture, University of Lisbon (ongoing)

Integrated Master in Architecture  
Faculty of Architecture, Technical University of Lisbon (2012)

Exchange program at *Fakultät für Architektur und Landschaft*.  
*Leibniz Universität Hannover* (2009-2010)

Graduation in Sciences of Architecture  
Faculty of Architecture, Lusíada University of Lisbon (2008)

Frequency of the Mechanical Engineering Graduation  
Instituto Superior Técnico, Technical University of Lisbon (2000 - 2004)

## COMPLEMENTARY TRAINING

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Web Scraping / Data Mining / Convex and Solid Voids,  
*DCG Super Week Workshops* – Lisbon, FAUL (2017)

Knowledge Engineering – Lisbon, FCUL (2016)

Parametric Urban Design – Lisbon, FAUL (2014)

Design and Digital Fabrication – Lisbon, FAUL (2014)

Mathematical Fundamentals for Computation – Lisbon, FAUL (2014)

Programming (Racket) – Lisbon, FAUL (2013 - 2014)

Shape Grammars – Lisbon, FAUL (2013)

Introduction to GIS – Lisbon, FAUL (2013)

Space Syntax – Lisbon, FAUL (2013)

Arquibio 2013, Conferences and Workshop (Grasshopper) – Coimbra, FCTUC (2013)

1st eCAADe Regional International Meeting “*Future Traditions*” - Porto, FAUP (2013)

Workshop “*GDP – Generative Design Process*” - Porto, FAUP (2013)

Seminar and Workshop “*Measuring Urbanity*” (QGIS, PostGres, Grasshopper) – Lisbon, FAUTL (2012)

Workshop “*A Living System*” (Rhino 3D, Grasshopper, Arduino, Digital Fabrication) – Lisbon, ISCTE (2012)

Vray for Rhino 3D – Lisbon, Rhino 3D Portugal (2012)

Rhino 3D – Lisbon, Rhino 3D Portugal (2012)

Digital Fabrication Symposium and Workshop – Lisbon, ISCTE (2011)

3D Studio Max 9 (levels 1 e 2) – Lisbon, The Edge (2007)

Autocad 2D – Lisbon; Cenfim (2004)

## PROFESSIONAL EXPERIENCE

DATE	COMPANY & FUNCTION	DESCRIPTION
Feb.2020- Present	Freelance	Architect and consultant in Design and Computation.
Feb.2020- Present	Zigurat - Global Institute of Technology	Professor at Zigurat's International <a href="#"><u>Master in BIM Management</u></a> , <a href="#"><u>Master Internacional em BIM Management para Infraestruturas, Engenharia Civil e GIS</u></a> and <a href="#"><u>Specialization Course in Parametric design with Visual Programming in BIM</u></a> (EN/PT), on the topics of Algorithmic Design for BIM and AR/VR.
Sep.2017- Dec. 2019	FAUL, Research Fellow	PhD research in Design and Computation applied to Architecture at FAUL, with a research on Semantic Design Systems with a FCT Doctoral Grant (SFRH/BD/131386/2017).
Oct.2019- Dec. 2019	FAUL, Teaching Assistant	Prof. Pedro Ferraz de Abreu's assistant in the elective course of Artificial Intelligence in Planning.
Feb.2017- Jun.2017	FAUL, Teaching Assistant	Prof. Beirão's Assistant in the elective course of Parametric Urban Planning.
Jun.2016- Aug.2017	CIAUD, Researcher	Project "Measuring Urbanity: densities and urban performance of extensive urban fabrics. The Portuguese case" (BI_09-EAT-04008): Development of generative, parametric and analytical digital tools to support urban design, combining ontologies and shape grammars; research and production of scientific articles.
Apr.2015 – May 2016	CIAUD, Researcher	Project Tecton 3D "Digital Mockup – Touching the 3rd Dimension" (PTDC/EEI-SII/3154/2012):  Development of a prototype for procedural modelling in immersive VR environment; CAD 3D modelling and programming; usability tests; research and production of scientific articles.
Jun.2014 – Apr.2015	Esfera de Imagens, Architect	Architectural Design; construction monitoring; suppliers and logistics; CAD 3D and architectural visualization (rendering).
2013 - 2014	EMBAIXADA Architecture, Architect	Architectural Design; Generative Design; Generative Design; Competitions; CAD 3D and architectural visualization (rendering).
2013	CIAUD, Research Intern	Research in Architecture; organization and participation in the International Conference "A Villa Renascentista – Arquitectura, Jardins e Paisagem".
2008	Atelier Ana Araújo Lda.	Architectural Design; architectural surveying; CAD 2D.
2006	Miguel Mira -Arquitectura e Planeamento Lda., Collab.	Collaboration in the development of ongoing architectural designs; CAD 2D.

## PUBLICATIONS

### CHAPTERS IN BOOKS

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Klerk, Rui de and Beirão, José Nuno, 2017. **CIM-St - A Parametric Design System for Street Cross Sections**, in Çağdaş, G., Özkar, M., Gül, L. F. & Gürer, E. (Eds.), *Computer-Aided Architectural Design. Future Trajectories: 17th International Conference, CAAD Futures 2017, Istanbul, Turkey, July 12-14, 2017, Selected Papers*, Springer Singapore, pp. 42-59. ISBN 978-981-10-5197-5. [https://link.springer.com/chapter/10.1007/978-981-10-5197-5\\_3](https://link.springer.com/chapter/10.1007/978-981-10-5197-5_3)

Klerk, Rui de, 2016. **A Quinta das Torres - Interpretação e Análise Geométrica da sua Arquitectura**. In *O Lugar da Villa Renascentista na Arquitectura Portuguesa: Investigação da Arquitectura da Quinta de Recreio dos Séculos XVI e XVII e sua Contextualização Paisagística e Cultura*". Lisboa: Caleidoscópico - Edição e Artes Gráficas, SA, pp. 233-246. ISBN 978-989-658-377-4.

### SCIENTIFIC JOURNAL PAPERS

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Klerk, Rui de, André Mendes Duarte, Daniel Pires Medeiros, José Pinto Duarte, Joaquim Jorge, e Daniel Simões Lopes. **Usability studies on building early stage architectural models in virtual reality**. *Automation in Construction* 103 (2019): 104–16. <https://doi.org/10.1016/j.autcon.2019.03.009>

### CONFERENCE PROCEEDINGS

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LDAC (Linked Data in Architecture and Construction) 2019, **Proceedings of the 7th Linked Data in Architecture and Construction Workshop**, María Poveda-Villalón, Pieter Pauwels, Rui De Klerk, Ana Roxin (eds.), Lisbon, Portugal, June 19-21, 2019. ISSN 1613-0073. <http://ceur-ws.org/Vol-2389/>

Beirão, José Nuno and de Klerk, Rui (2017), **CIM-St - A Design Grammar for Street Cross Sections**, Fioravanti, A, Cursi, S, Elahmar, S, Gargaro, S, Loffreda, G, Novembri, G, Trento, A (eds.), *ShoCK! - Sharing Computational Knowledge! - Proceedings of the 35th eCAADe Conference - Volume 2*, Sapienza University of Rome, Rome, Italy, 20-22 September 2017, pp. 619-628. ISBN 978-94-91207-13-6. [http://papers.cumincad.org/cgi-bin/works/Show?ecaade2017\\_155](http://papers.cumincad.org/cgi-bin/works/Show?ecaade2017_155)

Klerk, Rui de and Beirão, José, 2016, **Ontologies and Shape Grammars - A Relational Overview Towards Semantic Design Systems**, in Herneoja, Aulikki; Toni Österlund and Piia Markkanen (eds.), *Complexity & Simplicity - Proceedings of the 34th eCAADe Conference - Volume 2*, University of Oulu, Oulu, Finland, 22-26 August 2016, pp. 305-314. ISBN 978-94-91207-11-2. [http://papers.cumincad.org/cgi-bin/works/Show?ecaade2016\\_217](http://papers.cumincad.org/cgi-bin/works/Show?ecaade2016_217)

Mateus, D.; Sousa, M.; Klerk, R. de; Gama, S.; Jorge, J.; Duarte, J. P., 2015. **From Tekton to Tekne - going back to the classical roots of architecture using virtual reality**, Martens, B, Wurzer, G, Grasl T, Lorenz, WE and Schaffranek, R (eds.), *Real Time - Proceedings of the 33rd eCAADe Conference - Volume 1*, Vienna University of Technology, Vienna, Austria, 16-18 September 2015, pp. 107-116. ISBN 9789491207082. [http://papers.cumincad.org/cgi-bin/works/Show?ecaade2015\\_181](http://papers.cumincad.org/cgi-bin/works/Show?ecaade2015_181)

### DISSERTATIONS

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Mota, Rui Van Zeller de Klerk, 2012 - **Arquitetura algorítmica aplicada à habitação em Port-au-Prince, Haiti. Um sistema de projecto**. Lisboa: FA, 2012. Tese de Mestrado. <http://www.repository.utl.pt/handle/10400.5/5804>

## REPORTS

Jorge, J., Duarte, J., Lopes, D., Costa, E. Mateus, D., Klerk, R., Bruno, L., Sousa, M., 2016. **Tecton 3D Digital Mockup: Touching the 3<sup>rd</sup> Dimension Final Report**, INESC-ID TechReport, vimmi/02/2016. <http://web.tecnico.ulisboa.pt/jorgej/papers/tecton3d-report.pdf>

## SCIENTIFIC REVIEWER

### JOURNAL

**IJAC**: The International Journal of Architectural Computing  
<http://www.architecturalcomputing.org/>

### CONFERENCES

**LDAC2021** - 9th Linked Data in Architecture and Construction Workshop (17-19 June 2020)  
<https://linkedbuildingdata.net/ldac2021/>

**LDAC2020** - 8th Linked Data in Architecture and Construction Workshop (17-19 June 2020)  
<http://linkedbuildingdata.net/ldac2020/>

**LDAC2019** - 7th Linked Data in Architecture and Construction Workshop (19 - 21 June 2019)  
<http://linkedbuildingdata.net/ldac2019/>

## SCIENTIFIC CONSULTANCY

### DATE

### PROJECT / INSTITUTION / COMPANY

Mar.2021 - Present      Advisory board of the [SECCLasS \(Sustainability Enhanced Construction Classification System\)](#) Project

Jun.2019 - Feb.2020      Governance board of the [W3C Linked Building Data Community Group](#)

## CONFERENCES/LECTURES

### DATE & PLACE

### TITLE

2020, December, Zigurat (Online)      MASTERCLASS - *“Rhino & Grasshopper para alavancar os fluxos de trabalho BIM entre diferentes aplicações”*

2020, October, Lisbon  
FACULTY OF ARCHITECTURE (UL)      *“Implied, by design”*

2020, August, Zigurat (Online)      MASTERCLASS - *“BIM and Generative Systems”*

2020, February, Zigurat (Online)      MASTERCLASS - *“Realidade Virtual, Realidade Mista e a indústria AEC”*

2019, November, Lisbon  
FACULTY OF ARCHITECTURE (UL)      *“Linked Data for the Built environment”*

2019, November, Lisbon  
FACULTY OF ARCHITECTURE (UL)      *“Ontologies and Linked Data”*

2019, September, Lisbon  
FACULTY OF ARCHITECTURE (UL)      *“A holistic data-model for the AEC industry”*

2018, April, Porto  
CESAP      *“All bottles from one design: Semantics in design generation using ontologies to control shape generation”*

2017, October, Lisbon FACULTY OF ARCHITECTURE (UL)	<i>“Ontologies Using OWL”</i>
2017, September, Italy SAPIENZA UNIVERSITY OF ROME	<i>“CIM-St – A Design Grammar for Street Cross Sections”</i>
2017, February, Lisbon FACULTY OF ARCHITECTURE (UL)	<i>“Ontologies and Shape Grammars in the generation of street profiles”</i>
2016, August, Finland OULU SCHOOL OF ARCHITECTURE	<i>“Ontologies and Shape Grammars: a relational overview towards semantic design systems”</i>
2016, May, Lisbon FACULTY OF ARCHITECTURE (UL)	<i>“Interactive Concept Modeling: The Maquetteer Case Study”</i> - Daniel S. Lopes (INESC-ID) + Rui de Klerk (FAUL)
2016, May, Lisbon FACULTY OF ARCHITECTURE (UL)	<i>“Back to the Roots: towards a new approach to Architecture through Virtual Reality”</i> - Prof. José P. Duarte + Daniel Mateus + Eduardo C. Costa + Rui de Klerk (FAUL)
2013, December, Lisbon FACULTY OF ARCHITECTURE (UL)	<i>“Quinta das Torres – Interpretação e Análise do Seu Desenho através de Gramáticas da Forma”</i>
2013, May, Coimbra FACULTY OF SCIENCES AND TECHNOLOGY (UC)	<i>“Vernacular-Based Design Systems: an alternative for the reconstruction of Port-au-Prince, Haiti”</i>

## CONFERENCE/WORKSHOP ORGANIZATION

DATE & PLACE	DESCRIPTION
2021, October, Dublin Trinity College Dublin	<b>LDAC2021 - 9th Linked Data in Architecture and Construction Workshop</b> , member of the Program Committee. <a href="https://linkedbuildingdata.net/ldac2021/">https://linkedbuildingdata.net/ldac2021/</a>
2020, June, Dublin Trinity College Dublin	<b>LDAC2020 - 8th Linked Data in Architecture and Construction Workshop</b> , member of the Program Committee. <a href="http://linkedbuildingdata.net/ldac2020/#pc">http://linkedbuildingdata.net/ldac2020/#pc</a>
2019, June, Lisbon BETA-i HUB	<b>LDAC 2019 - Linked Data in Architecture and Construction Week</b> , organized by Rui de Klerk and Prof. José Nuno Beirão (local organization) with María Poveda Villalón, Kris McGlenn, Jakob Beetz, Seppo Törmä, Ana Roxin and Pieter Pauwels (LDAC organization). . This year’s edition of LDAC consisted of two events: <ul style="list-style-type: none"> <li>. the <b>1<sup>st</sup> Summer School of LDAC</b>, dedicated to the application of semantic web, linked data and web of data technologies in the AEC industry;</li> <li>. the <b>7th LDAC Workshop</b>, providing a focused overview on technical and applied research on the usage of semantic web, linked data and web of data technologies for architecture and construction (design, engineering, construction, operation, etc.)</li> </ul> Main website of the event: <a href="http://linkedbuildingdata.net/ldac2019/">http://linkedbuildingdata.net/ldac2019/</a> Summer School’s website and GitHub repository: <a href="http://linkedbuildingdata.net/ldac2019/summerschool/">http://linkedbuildingdata.net/ldac2019/summerschool/</a> <a href="https://github.com/linkedbuildingdata/SummerSchoolOfLDAC/">https://github.com/linkedbuildingdata/SummerSchoolOfLDAC/</a>

- 2018, June/July, Lisbon  
FACULTY OF ARCHITECTURE  
(UL) **Design Computing Summer School 2018**, organized by the Design and Computation Group (DCG), consisting of four workshops in the field of design computing: #1 Structural Weaving; #2 Immersive and Responsive Environments; #3 Web-Scraping and Data Mining & #4 Capturing Walkability. Besides being part of the organization team, will also be an instructor in workshops #1 and #2.  
<http://dcgsummerschool2018.fa.ulisboa.pt/>
- 2017, October, Lisbon  
FACULTY OF ARCHITECTURE  
(UL) **Ontologies Using OWL**, closing workshop of the **DCG Super Week Workshops**, with the collaboration of Prof. Paulo Urbano (FCUL). The workshop introduced its participants to the world of shareable knowledge representation using semantic web technologies and how these tools may be used to introduce a semantic dimension into their projects. Participants learnt the basic mechanisms of how to create ontologies in OWL (Web Ontology Language) using Protégé ontology editor.
- 2017, May, Lisbon  
FACULTY OF ARCHITECTURE  
(UL) Closing workshop of the research project **TECTON3D: Digital Mockup: Touching the 3rd dimension** [PTDC / EEI-SII / 3154/2012], consisting of modelling experiments, a series of lectures, a discussion panel, and the Digital Alberti exhibition.  
<https://tecton3d.wordpress.com/2016/05/25/closing-workshop/>
- 2016 to present date, Lisbon  
FACULTY OF ARCHITECTURE  
(UL) **DCG lectures** ( <http://dcg.fa.utl.pt/lectures/> ), held by the Design and Computation Group (DCG) of the Faculty of Architecture, University of Lisbon. These lectures are held on a regular basis at the Faculty of Architecture, University of Lisbon, bringing researchers and students in the field of design and computation together to present their work, followed by a debate.
- 2004, Lisbon  
IST (TU Lisbon) **17th Jobshop AEIST**, a job fair held by the Students Association of Instituto Superior Técnico (former TU Lisbon) with the participation of dozens of enterprises. Parallel to the job fair, Rui de Klerk also organized a conference cycle where some of the enterprises would present themselves to the academic community, closing with a large conference entitled “**The other face of Engineering**”, moderated by Dr. Fernando Ramôa Ribeiro (1945-2011) and with the honourable presence of Dr. Maria de Lourdes Pintasilgo (1930-2004), among other guests from different fields.

## TEACHING EXPERIENCE

DATE	COMPANY & FUNCTION	DESCRIPTION
Nov.2020 - Present	Zigurat - Global Institute of Technology	Professor at Zigurat's <a href="#"><i>Master Internacional em BIM Management para Infraestruturas, Engenharia Civil e GIS</i></a> , on the topic of visualization for BIM (Twinmotion and Enscape).
Sep.2020 - Present	Zigurat - Global Institute of Technology	Professor at Zigurat's <a href="#"><i>Specialization Course in Parametric design with Visual Programming in BIM</i></a> (EN/PT), on the topics of Algorithmic Design for BIM (Grasshopper-Archicad Live Connection, Rhino.Inside Revit and Python).



Feb.2020 - Present	Zigurat - Global Institute of Technology	Professor at Zigurat's <a href="#"><i>Master Internacional em BIM Management</i></a> , on the topics of Algorithmic Design for BIM (Grasshopper-Archicad Live Connection and Rhino.Inside Revit) and visualization (Twinmotion and Enscape).
Oct.2019 - Dec.2019	FAUL, Teaching Assistant	Prof. Pedro Ferraz de Abreu's assistant in the elective course of Artificial Intelligence in Planning.
Jun.2018	FAUL, Workshop Instructor	Instructor of the <i>Structural Weaving</i> workshop of the <i>Design Computing Summer School 2018</i> . <a href="http://dcs Summerschool2018.fa.ulisboa.pt/index.php/structural-weaving/">http://dcs Summerschool2018.fa.ulisboa.pt/index.php/structural-weaving/</a>
Jun.2018	FAUL, Workshop Instructor	Instructor of the <i>Immersive and Responsive - Performative Architectural Design in Mixed Reality</i> workshop of the <i>Design Computing Summer School 2018</i> . <a href="http://dcs Summerschool2018.fa.ulisboa.pt/index.php/immersive-and-responsive/">http://dcs Summerschool2018.fa.ulisboa.pt/index.php/immersive-and-responsive/</a>
Feb.2017 - Jun.2017	FAUL, Teaching Assistant	Prof. Beirão's assistant in the elective course of Parametric Urban Planning.
2013-Present	Tutor	Assistance on subjects related to design computing (3D modelling, parametric/generative design, parametric urban planning, etc.) to graduation and post-graduation students.
2012-2016	Tutor	Mathematics (5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> , 8 <sup>th</sup> and 9 <sup>th</sup> grades).
2000-2016	Tutor	Descriptive Geometry (10 <sup>th</sup> , 11 <sup>th</sup> and 12 <sup>th</sup> grades).
2004-2008	Tutor	Geometry (university level).

#### **PARTICIPATION IN INTERNATIONAL UNDERGRADUATE JURIS (external examiner)**

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<b>Title</b>	"Casa Popular: Sistema para o litoral cearense"
<b>Student</b>	Leonardo Luna de Melo Jorge
<b>Date</b>	July 2019
<b>Institution</b>	Universidade Federal do Ceará (UFC)
<b>Supervisor</b>	Prof. Daniel Ribeiro Cardoso (UFC)

#### **PARTICIPATION IN REFERENCE PROJECTS – ARCHITECTURE**

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ENTITY	DESIGNATION
FA (UL)	1st Prize– Digital Design of Sofalca Pavilion for FA (UL).
EMBAIXADA	Honourable Mention – Setúbal Library and requalification of José Afonso square. <i>Concurso Público – Largo José Afonso, Setúbal, Portugal – 2013</i> <a href="https://divisare.com/projects/233979-embaxada-arquitectura-setubal-public-library">https://divisare.com/projects/233979-embaxada-arquitectura-setubal-public-library</a>



## TECHNICAL SKILLS

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Rui de Klerk's technical skills combine a background in planning with digital technologies, from his studies and practice in architectural design, focusing on algorithmic architectural design supported by semantic web technologies and artificial intelligence. His preferred programming language is Python. A particular characteristic is his fearless spirit facing the need to deal with ever-evolving technologies, looking for the most up-to-date tools and methods.

Below is a listing of skills organized by topic:

### CAD 2D / 3D

Rhino 3D, AutoCAD, Sketchup

### BIM

Grasshopper-ARCHICAD Live Connection, Rhino.Inside Revit, Archicad, VisualARQ, Revit

### GIS

CityMaker (CIM), QGis

### 3D VISUALIZATION / VR / AR

. Twinmotion, Enscape, Unity 3D, WebVR/AR, 3DS Max, V-Ray

### OTHER

. Git, Docker, MS Office, Digital Fabrication

### PROGRAMMING / SCRIPTING

Python, Visual Programming (Grasshopper 3D, NodeRED), C#, JavaScript, Lisp (Racket), Jess, LaTeX

### SEMANTIC WEB TECHNOLOGIES

Ontology-Oriented Programming (Owlready2), RDFLib, RDF / OWL, SPARQL, Protégé

### WEB DEVELOPMENT / DATA

FastAPI, Flask, HTML, CSS, XML, SQL, PostgreSQL, SQLite, Heroku

### IMAGE / VIDEO EDITING

Photoshop, Illustrator, InDesign, DaVinci Resolve

## LINGUISTIC COMPETENCES

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<b>PORTUGUESE:</b>	Reading – N;	Oral – N;	Written – N
<b>ENGLISH:</b>	Reading – A;	Oral – A;	Written – A
<b>FRENCH:</b>	Reading – I;	Oral – I;	Written – I
<b>SPANISH:</b>	Reading – I;	Oral – I;	Written – I
<b>GERMAN:</b>	Reading – B;	Oral – B;	Written – B

N – Native | A – Advanced | I - Intermediate | B - Basic

## SOFT SKILLS

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- . Multidisciplinary, proactive and eager to innovate;
- . Good relationship and communication skills;
- . Dedicated and motivated, always up for a challenge;
- . Team player!