

Ian Germoglio Barbosa

Civil Engineer with interest in Railroads, Transportation Engineering, Urban Mobility, Urban Planning, and Road Infrastructure.

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Urbana, Illinois, US

Education

University of Illinois at Urbana Champaign - Master of Science in Civil Engineering

GPA : 3.57/4.00 May 2020 – May 2022

Universidade Federal da Paraíba - Bachelor of Science in Civil Engineering

GPA : 7.98/10.0 Oct 2013 – Oct 2019

Institut National des Sciences Appliquées - Specialization in Infrastructure, Bridges and Viaducts

GPA : 14.33/20.0 Aug 2017 – Dec 2018

Experience

ENSCO Rail – Product Manager – Illinois, USA (Remote)

June 2022 –Present

Product manager of Virtual Track Walk, a railroad infrastructure inspection system that uses machine vision to improve maintenance and support capital planning decisions. I lead/support software developers to refine our products based on market's needs, while managing relationship with current and potential new clients. 400K USD annual budget.

RailTEC UIUC – Graduate Research Assistant – Illinois, USA

May 2020 – May 2022

Using intense data analysis methods, developed a component track health component index based on business rules from different railroad companies and research findings, using data extracted from real track, applying 3D laser scanning technology, and deep convolutional neural networks for embedded Class I railroads safety inspections.

Techint Construction & Engineering – Field Engineer – Maranhão, BR

Jan 2020 – May 2020

Field engineer responsible for mechanical assembly of 4 Diverter Dumpers in a gas power plant in Maranhão – Brazil. Worked directly with the technical assistant from Siemens and managed a team with 50+ workers. 500M USD project.

GCC Groupe – Intern – Lyon, FR

Jul 2018 - Nov 2018

Supervised the work of approximately 40 employees in the construction of a 6000 m² hospital in the metropolitan area of Lyon. I developed a work with people from more than 5 different nationalities. 20M USD project.

LARHENA UFPB - Research Assistant – Paraíba, BR

Aug 2016 – Jun 2017

Studied the drought in the Northeast of Brazil and create a software capable of analyze it. Became familiar with the use of Python and the Fuzzy Logic. Published in the first Brazilian Workshop on Assessment of Hazards, Vulnerability, Exposure and Disaster Risk Reduction.

PLANEJ Junior Enterprise - Public Relations Analyst – Paraíba, BR

Nov 2015 – April 2016

Responsible for creating new opportunities and prospect new clients. Learned how to negotiate with people from the most diversified backgrounds and how to behave in a corporate environment.

Languages

Portuguese (fluent), French (fluent), English (fluent), Spanish (intermediate).

Software Skills

Advanced:

- Machine Learning
- MySQL
- Microsoft Office – Word, PowerPoint, Excel
- Python
- Data Science

Associations

AREMA Student Chapter at UIUC Vice President between 2021-2022

Member of AREMA Committee 2 – Track Measurement and Assessment Systems since 2021