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To whom it may concern,

My name is Rafael Baraldi, Civil Engineer, and I've specialized in the field of concrete structures used in infrastructure for underground rapid transit and motorway systems. Moreover, I've worked on projects for fire prevention and sanitary systems for buildings, and on technical supervision in the implementation of construction services.

I'm passionate about structural analysis of civil engineering. I've extensive experience in designs, calculations and structural modeling. Moreover, I'm looking to further develop my skills on structural design projects as an engineer in an international company from the Civil Engineering industry.

AREAS OF EXPERTISE

Civil Engineering

- Competent in the field of structural engineering.
- Specialist in structural calculation of reinforced concrete structures
- Extensive experience in executing projects for underground rapid transit system
- Proficient in preparing projects for sports buildings, industries and motorway bridges
- Experience in hydraulic design and fire prevention systems
- Comprehensive knowledge of norms and legislations pertaining to Civil Engineering; including ISO Standardization – *NBR 6118:2014 – Concrete Structures Design – Procedure*
- Numerical Modelling Specialist in the structure and development of 2D and 3D designs.
- Skilled in Autodesk AUTOCAD, REVIT software, ATIR STRAP and CSI SAP2000.
- Experienced in truck scale designs, retaining wall systems and concrete silos
- Site monitoring and systematic inspection of private building sites where building work are in progress

Personal Highlights

- Works well under pressure
- Adept at setting goals
- Result oriented
- Team player
- Continuous career development in civil engineering
- Willingness to cooperate with large or small teams
- Availability and willingness to travel nationally or internationally for job opportunities.

WORK EXPERIENCE

ARCADIS LOGOS S.A.

June 2013 - November 2015

Dutch multinational company specialized in the management and development of infrastructure, industry, water and environmental projects.

Junior Structural Engineer

Responsible for the developing of numerical 2D and 3D models and for the calculation of reinforced concrete structures.

Projects undertaken:

- Underground rapid transit system station in the cities of São Paulo, Belo Horizonte and Bahia.
- Road retaining walls for *Mario Covas* road ring in São Paulo
- Storage place for hazardous liquid waste
- Development of reports and calculation spreadsheets for stress verification, structural sizing and design elaboration of project form and frame

CELENGE ENGENHARIA S/S LTDA

November 2011 - May 2013

Brazilian company that provides engineering services for underground railway system, truck scale and technical reports for special loads

Junior Structural Engineer 2012 – 2013 (Civil Engineer Assistant 2011 – 2012)

- Designs of numerical 2D and 3D models for underground stations, ventilation and emergency exits for the São Paulo rapid transit system
- Development of numerical models for viability reports of mobile loads and lorry scales
- Responsible for calculation reports, structural sizing worksheets, checking strain and preparing the form and frame design

FIT ENGENHEIROS E ASSOCIADOS LTDA

November 2010 – November 2011

Brazilian company focused on the development of hydro-sanitary, firefighting and fire prevention projects.

Civil Engineer Assistant

- Responsible for the design of hydraulic systems: hot and cold water, sewage, rainwater and firefighting
- Development of technical plumbing designs for construction projects
- Assistance in the planning of firefighting projects
- Organizing of regulatory technical meetings requested by São Paulo's Fire Brigade

ALIMONTI COMERCIAL E CONSTRUTORA

September 2009 - November 2010

Brazilian company for construction and real estate business development with residential and commercial high standard properties

Civil Engineer Assistant

- Monitor and verify the compliance of construction projects

- Responsible for the daily control of administrative duties, provision of supplies and digital control of invoices
- Diligent monitoring of works
- Supervision of construction worker's activities
- Technical on-site verification of ongoing projects

SUB PREFEITURA DA REPÚBLICA – SIURB

May 2008 – August 2009

Urban Infrastructure of the City of São Paulo

Civil Engineer Assistant

- Watersheds inspection for calculations and verification of *non aedificandi* zones
- Development of regularization processes for construction projects
- Monitor dry beds and rainwater harvesting systems for roads *non aedificandi*.

Academic Qualifications

Mackenzie Presbyterian University

Bachelor of Civil Engineer, Civil Engineering, 2006-2012

Faculty of Engineering of São Paulo

Graduate in Concrete Structures for buildings, 2013-2015

Specialist in Reinforced Concrete

Certifications and Achievements

- Elementary course in Concrete STRAP – *Sistemas de Análise Estrutural LTDA, 2013*
- Advanced course in Concrete STRAP – *Sistemas de Análise Estrutural LTDA, 2013*
- Elementary course in Autodesk REVIT ARCHITECTURE – *ENGMEX Training S.A, 2015*
- Elementary Course in Autodesk REVIT STRUCTURE – *ENGMEX Training S.A, 2015*
- *TGI Itaú Teacher Award Dr. Benedito Guimarães Aguiar Neto*, from Mackenzie Presbyterian University in 2012, for presenting the project titled "*Pathology in building facades coated in mortar*".

Technical Skills

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|--------------------|-------------------|--------------------|
| - ATIR STRAP | - NBR 6118:2014 | - Microsoft Office |
| - Autodesk AutoCAD | - CSI SAP2000 | |
| - Autodesk REVIT | - TQS Informática | |

Additional Information

Languages: Portuguese (Fluent), English (Common European Framework – B1)

Citizenship: Brazilian / Portuguese

Member of the Regional Council of Engineering and Agronomy – CREA No. 5069046837