

ANDRÉS PEÑA

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Objective: Registered E.I.T with Professional Engineers Ontario looking to work in feasibility design, spatial analysis or digital design.

WORK EXPERIENCE

Transportation Consultant Movilidad Sostenible Ltda, remote position for Company based in Colombia	2019 – 2020
Engineering Intern Parsons Corporation, Ottawa, Canada	2018 – 2019
Transportation Specialist Low Carbon Resilient Development Program USAID / USFS, Bogota, Colombia	2014 – 2017
Project Specialist and Graduate Assistant Researcher University of the Andes, Bogota, Colombia	2011 – 2014

SKILLS

Communication

- Prepared presentation slides for the technical advisory committee on the Ottawa Road Corridor Design Guidelines-Urban Collectors Update.
- Wrote technical reports for eight traffic impact studies in Ottawa, Ontario.
- Presented poster at the Transport Research Board 93rd Annual Meeting in Washington, D.C.

Analytical

- Determined the critical bicycle and infrastructure characteristics to enable safe and convenient travel for parents cycling with children, in Bogota, Colombia.
- Identified commuting patterns in three Colombian municipalities, to prioritize transport actions of the Low Carbon Resilient Development Program.
- Analyzed data from 500 respondents to a survey regarding cycling preferences in Chia, Colombia,

which allowed to assess needs for the formulation of the municipal policy on cycling.

- Assessed operation alternatives of a six-storeys parking building using AutoCAD Vehicle Tracking, to reduce vehicle queues on peak hours.
- Proposed the location of a motorcycle lane in Bogotá using ArcMap and spatialized data on number of lanes, traffic volumes and motorcycle crashes.

Design

- Created CAD functional drawings of a roundabout located in a University Campus in Bogotá, Colombia.
- Completed a one storey house model in Revit, as part of coursework at the Algonquin College.

Computational

- Working knowledge of AutoCAD, Revit, Photoshop, ArcMap, SketchUp, MS Office, Synchro and Vissim.

EDUCATION AND TRAINING

Computer Aided Design: AutoCAD & Revit

Algonquin College – Ottawa (135 hrs of combined training completed to date)

Ongoing

Frontend Developer Career Path

Scrimba – Online Bootcamp

(coursework in HTML, CSS, JavaScript, APIs, React, UI Design, Git, among others)

Ongoing

Master of Science: Civil Engineering with emphasis in transportation

University of the Andes – Bogota, Colombia

2013

Bachelor of Science: Civil Engineering
University of the Andes – Bogota, Colombia

2012

AWARDS AND ACHIEVEMENTS

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| Master Thesis Poster Presentation at 93rd TRB Annual Meeting
Transport Research Board, Washington, United States | 2014 |
| Determination of an urban corridor to implement motorcycle lanes in Bogotá
Presentation at the XV Esri Users Conference, Bogotá, Colombia | 2013 |
| Graduate Assistance Scholarship
University of the Andes, Bogota, Colombia | 2012 |

VOLUNTEER EXPERIENCE

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| Assembly drawings for face shields built at the U Ottawa Makerspace
University of Ottawa Makerspace – Ottawa, Ontario | 2020 |
| Transportation Policy Analyst
Ecology Ottawa, Ottawa, Ontario | 2017 |
| Pedestrian Mobility Analyst
Fundación Despacio, Bogota, Colombia | 2017 |
| Painter of two Pop-up Pedestrian Crossings
Secretary of Mobility, Bogota, Colombia | 2015 |

For info about the purpose of artistic pedestrian crossings in Bogotá, please visit:
<https://www.linktv.org/shows/towards-the-human-city/cebras-por-la-vida-painting-the-town-for-pedestrian-safety>

PUBLICATIONS

- Montoya-Robledo, V., & Et al. (2020). **Gender stereotypes affecting active mobility of care in Bogotá.** Transportation Research Part D: Transport and Environment, Volume 86.
- Bocarejo, J., Lleras, G. & Peña, A. (2017). **Determination of Motorcycle Passenger Car Equivalence for Uninterrupted Flow in an Urban Road of Medellin, Colombia.** Investigaciones de casos aplicados de transporte en Colombia: Por una movilidad sostenible. XII Congreso Colombiano de Transporte y Tránsito, 55.
- Bocarejo, J., & Et al. (2014). **An innovative transit system and its impact on low-income users: the case of the Metrocable in Medellin.** Journal of Transport Geography, 49-61.
- Tyler, N., & Et al. (2013). **Proposal for a national transport strategy for low carbon cities: Colombia in 2030.** University College London - Universidad de los Andes, Bogotá, Colombia.