## **BRAULIO ANDRES COVARRUBIAS VARGAS**

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University of Oklahoma (OU) M Sc. in Civil Engineering GPA 3.67/4.00	Norman, OK Expected May 2021
<b>B Sc. in Civil Engineering</b> GPA 3.57/4.00	Graduated May 2020
Academic Distinction, UWC-Davis Scholar, President's Honor Roll (4), Dean's Honor Roll ( Sooners Without Borders, The United World	(4), Member of Chi Epsilon,
PROFESSIONAL EXPERIENCE	
<ul> <li>Guest Scholar</li> <li>Lehigh University – Natural Hazards Engineering Research Infrastructure</li> <li>Received training on Real-Time Hybrid Simulations</li> <li>Planned, designed and performed 240 tests (characterization, free-vibrations, RTHS)</li> </ul>	Bethlehem, PA Jul – Sep 2020
<ul> <li>Planned, designed and performed 240 tests (characterization, free-vibrations, RTHS)</li> <li>Developed MATLAB codes to obtain, filter, and analyze force-displacement and tii</li> </ul>	
<ul> <li>Graduate Research Assistant</li> <li>OU Gallogly College of Engineering <ul> <li>Conduct data gathering and analysis in the field of Structural Dynamics</li> <li>Preparing technical reports, paperwork and presentations demonstrating research fin</li> <li>Designed and built an equipment isolation unit under an NSF-EPSCoR Track 4 proje</li> <li>Currently writing 3 journal articles to be published in 2021</li> </ul> </li> </ul>	Norman, OK May 2020 – Present dings
<ul> <li>Junior Application Administrator &amp; Data Analyst</li> <li>OU – Information Technology <ul> <li>Research new trends in online learning that might be suitable for the University of C</li> <li>Offer support to students, staff and faculty with LMS (Canvas) and other virtual serv</li> <li>Create and maintain support documentation in IT's Knowledge Management Tool (C</li> <li>Use business analytic services software (Power BI) to visualization and arrange data</li> <li>Provide world class technology support to a campus population of over 30,000 (appr laboratories)</li> </ul> </li> </ul>	vices (Qualtrics, MyMedia) ComAround) a and data relationships
<ul> <li>Student Researcher   Urban Concepts in Sustainable Transition</li> <li>European College of Human Ecology <ul> <li>Propose, research, and present a project incorporating sustainability related concepts</li> <li>Develop and innovate on sustainable urbanism practices (i.e. bike-sharing systems) s Emmendingen</li> </ul> </li> </ul>	
SKILLS AND INTERESTS	
Software: AutoCAD, Civil 3D, SketchUp, Revit, MATLAB, Python, RISA 2-D, MultiFrame Microsoft Office Suite. Languages: Spanish (Native), English (Proficient), Portuguese (Beginner) Interests: Structural Engineering, dynamics and building resilience, structural restoration, for Engineering, bridges, architecture, reading, sustainability, clean energies.	
LEADERSHIP	
<ul> <li>Chief Information Officer   OU Structural Engineering Institute</li> <li>Manage and overview the organization's official documents</li> <li>Record, organize and publish monthly meeting minutes</li> </ul>	August 2020 - Present

## Marketing and Display Lead | OU Steel Bridge Competition Team

- Designed and distributed the teams' advertising and recruiting posters, flyers, t-shirts every other week •
- Coordinated with other leading positions to schedule biweekly general meetings
- Designed, fabricated, and built 1:10 scale steel bridge to represent the University of Oklahoma at the Regional ASCE • Student Steel Bridge Competition

May 2019 - May 2020