

Ricardo Osmar Jacome

• 2200 Vine St., Lincoln, NE 68503 • (956) 821-5386 • rjacome@huskers.unl.edu

EDUCATION

University of Nebraska – Lincoln	Estimated Graduation Date:	May 2020
<ul style="list-style-type: none">• Master of Science in Mechanical Engineering and Applied Mechanics (3.88 GPA)<ul style="list-style-type: none">◦ Specialization in Dynamics & Vibrations◦ Secondary Areas of Study: Systems, Design and Controls		
University of Texas – Rio Grande Valley		May 2017
<ul style="list-style-type: none">• Bachelor of Science in Mechanical Engineering (3.98 GPA)<ul style="list-style-type: none">◦ Minor in Business Administration (4.00 GPA)		

WORK EXPERIENCE

Graduate Research Assistant	<i>University of Nebraska – Lincoln</i>	2017-Present
<ul style="list-style-type: none">• Data Analyst for Midwest Roadside Safety Facility, involved in Finite Element Analysis simulations for crash testing analysis, experience with high speed data acquisition systems, filtering techniques, and sensor data analysis.		
Teaching Assistant	<i>University of Texas – Rio Grande Valley</i>	2015-2017
<ul style="list-style-type: none">• Mentor in an engineering class of ~120 undergrad students. Explained concepts to students and graded lab reports. Class topics covered were Linear Algebra, Probability, Statistics and Vector Calculus.		
Science Tutor	<i>University of Texas – Rio Grande Valley</i>	2014-2017
<ul style="list-style-type: none">• CRLA Level 2 Certified. Tutored students in the areas of Chemistry, Physics, Math and Engineering. Certified to train entering level tutors into the customer service environment.		
UTCRS Internship	<i>Mid-America Transportation Center</i>	Summer 2015
<ul style="list-style-type: none">• Position focused development of dynamic simulations on Adams MSC software for slopes at railway intersections. Created cost-benefit analysis into the deletion of these slopes for the railway industries.		

ASSOCIATIONS

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| <ul style="list-style-type: none">• Tau Beta Pi, Member (2016-Present)• Brazilian Jiu-Jitsu Club (2014- 2017) | <ul style="list-style-type: none">• Hispanic Scholarship Fund Scholar (2018-Present) |
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SOFTWARE PROFICIENCY

- **Microsoft Software:** Word, PowerPoint, Excel.
- **Design/Simulation Software:** Solidworks, Adams MSC, CarSim, Simulink
- **Finite Element Analysis Software:** Autodesk Simulation, LS-Dyna
 - FEA on Tire Debeading Simulation: <https://rickjacome.github.io/CurriculumVitae/files/2017-12-14-Jacome-Final-Report.pdf>
- **Programming/Processing Software:** C++, Java, MATLAB, LabView, Arduino, Python
 - FFT Analysis on Steering Wheel Vibration: <https://rickjacome.github.io/CurriculumVitae/files/2019-5-17-Vibrations-Jacome.pdf>
 - Inverted PID Pendulum Controller: <https://rickjacome.github.io/CurriculumVitae/files/2018-12-5-Pendulum-Jacome.pdf>

AWARDS

- Dwight David Eisenhower Transportation Fellowship 2018-2019
- Mid America Transportation Center Student of the Year Award 2018
- Society of Automotive Engineers/Heinz C. Prechter Automotive Excellence Scholarship 2017-2018
- Nebraska Engineering Recruitment Fellowship 2017-2019
- Summa Cum Laude Honors 2017

SKILLS

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| <ul style="list-style-type: none">• Fluent in English and Spanish | <ul style="list-style-type: none">• Beginning Japanese |
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PRESENTATIONS/PUBLICATIONS

- Jacome R. Sweigard M, "MATC Year One Report" August 2018
- Jacome R., Garcia R., Stutz J., Moya J. "Second Generation Multi-Station Polymer Creep-Tester", Presented at The University of Texas Rio Grande Valley, Senior Design Project May 2017.
- Jacome R., Trevino T. "Multibody Simulation for Intersecting Slopes at Railway Roads using ADAMS MSC Software", Presented at The University of Texas Rio Grande Valley, UTCRS Symposium on October 2015.