Ricardo Osmar Jacome

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EDUCATION

University of Nebraska – Lincoln	Estimated Graduation Date:	May 2020

- Master of Science in Mechanical Engineering and Applied Mechanics (3.95 GPA)
- Specialization in Dynamics &Vibrations
- Secondary Areas of Study: Systems, Design and Controls

University of Texas – Rio Grande Valley	May 2017

- Bachelor of Science in Mechanical Engineering (3.98 GPA)
- Minor in Business Administration

WORK EXPERIENCE

Graduate Research Assistant	*University of Nebraska – Lincoln*	2017-Present

- Data Analyst for the Midwest Roadside Safety Facility, involved in computer simulations for crash testing analysis, experience with high speed data acquisition systems and sensor data analysis.

Teaching Assistant	*University of Texas – Rio Grande Valley*	2015-2017

- 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	*University of Texas – Rio Grande Valley*	2014-2017

- 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	*University of Nebraska – Lincoln*	Summer 2015

- University Transportation Center for Railway Safety intern 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.

EXTRACURRICULAR ACTIVITIES

- Tau Beta Pi, Member (2016-Present)
- Brazilian Jiu-Jitsu Club (2014- 2017)
- Guerra Honors Program (2013-2017)
- Physics Association (2013-2015)

SOFTWARE LITERACY

- o *Microsoft Software*: Word, PowerPoint, Excel. Beginning knowledge with Macros
- o *Design/Simulation Software*: Solidworks, Adams MSC, Working Model
- o *Finite Element Analysis Software*: Autodesk Simulation, LS-Dyna
- o *Programming/Processing Software:* C++, Java, MATLAB, CoCalc, LabView, Arduino, Python

AWARDS

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

SKILLS/ EXPERIENCE

- Fluent in English and Spanish
- Lathes, Drilling/Milling, Forcespinning, Electronics Soldering
- Machine Learning/Neural Networks
- Beginning French/Japanese
- Investment Experience on the market. Produced returns of 14% for personal account.

PROJECTS' PRESENTATIONS

- 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.
- 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.