**Julio C. Castro**

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**ELearning Engineer**

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| **Performance Summary** |
| I am an Elearning Engineer with 6+ years of accumulated experience in building elearning courses for two major Florida universities in which I have used four different learning management systems (LMS) either as an instructor or an instructional designer. I have developed, deployed and/or maintained elearning instructional materials in those LMS by using web and computer programming, in some cases I have used software packages for elearning design (authoring tools). I worked closely with the IT department in the integration of new technologies (both software and hardware) for the design of elearning materials. I have managed multiple course development projects, worked collaboratively with teams and support units, worked with SMEs (subject matter experts) and university faculty, in designing instruction that effectively delivers the course content (activities, assessments, lessons), providing support to current courses, and conducting effective work meetings with every person involved in those projects assigned to me. I have worked in implementing quality assurance systems for elearning programs, as well as in establishing standards (such as Quality Matters) for course production. I have working experience in collecting and analyzing data for later use in course improvements (data-driven decisions). |

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| **Core Skills** |
| * Providing expertise for new technology acquisition
* Management of multiple projects
* Preparing and updating progress reports
* Statistics
* Data analysis
* Management of multiple projects
* Instructor and student support for online courses
* Instructor support during course development
* Developed written materials in both English and Spanish languages
 | * Working in teams on multiple projects
* Creating content for faculty training
* Troubleshooting courses, assessments, assignments, and other tools in the LMS
* Reporting to faculty and supervisors on the progress of course development
* Communicating technological options to faculty in plain language
* Native Spanish speaker
* Elearning Practices
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| **Technology Skills** |
| * HTML5 and CSS3
* Javascript (code modification)
* PHP (code modification)
* Wordpress 4.2
* Lectora Inspire 12
* Articulate Storyline 2
 | * Adobe Dreamweaver CS6
* Adobe Connect
* Adobe Captivate 9
* Photoshop CS6
* Camtasia Studio 8
* Code Baby (Avatar)
* Flypaper 3.5.1
 | * Snag It 12
* Sakai (LMS)
* Canvas, Blackboard (LMS)
* Matlab 2011b
* Microsoft Office 2013
* Setting up websites
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| **Professional Experience** |

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| **HW-COM FIU** (Herbert Wertheim College of Medicine, Florida International University) | **May 2015 - Current** |
| **Instructional Designer III** |  |
| * Developed five modules using authoring tools (Articulate Storyline), these modules have different engaging materials such as audio, video, and tests. Helped faculty with the development of scripts and during audio recording. These modules required more than 300 hours of development that involved additions of annotations, synchronization of audio with text and images, and the introduction of interactive media that supports learning.
* Arranged and conducted meetings with faculty and course coordinators to collect course requirements. Developed the notes from these meetings.
* Built 64 courses for the COM program for Period 1 and Period 2.
* Solved more than 700 Zendesk tickets in this span of time involving activities such as syllabus and calendar updates, setting up quizzes, building modules, and other tools inside LMS (Canvas).
* Provided technical and instructional support for the development of over sixty Articulate Presenter videos.
* Developed instructional materials for faculty and coordinators on the use of available elearning tools.
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| **UF TREEO** (Training and Research for Environmental and Engineering Occupations, University of Florida), 2046 NE Waldo Rd. Suite 1101 Gainesville, FL 32609 | **Nov 2012 – Aug 2014** |
| **Instructional Designer** |  |
| * Developed two online courses (previously delayed for two years) in less than three months. The courses are open with enrolled participants and producing revenue to the center.
* Collection and analysis of data on student activity for future course improvements.
* Completed a pre-certification course for dietary managers in a customized template (HTML and Javascript). The course was certified and has 467 students, generating revenue of more than $300,000 to the program.
* Designed and developed three more courses to complete the water conservation certification program. This complete certification is a major revenue generator for the center.
* Worked with SMEs (subject matter experts) in developing content for online courses. Helped Design an efficient and effective work system starting with an MOA (memorandum of agreement) and concluding with final course revision by the center director.
* Designed the proprietary TREEO template for all online courses. This template was approved by the center director and it is currently being used in the already open courses in Sakai.
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| **DCE UF** (Distance and Continuing Education Division), 2046 NE Waldo Rd.Suite 1101 Gainesville, FL 32609 | **March 2011 – Nov 2012** |
| **Instructional Designer** |  |
| * Applied simplified ADDIE system, supervised every step of course production, from supervising staff to managing the project to web programming and managing and supporting the course site.
* Created materials in Spanish language for a Spanish online course prototype.
* Provided course site support in LMS for more than forty courses (assessment reset, content modification or insertion according to the faculty needs), evaluation of course performance using the LMS analytics tool.
* Arranged and conducted meetings with instructors from the following departments at UF: Political Science, Geography, Anthropology, TREEO, Medicine, and Geology to determine and discussed their e-learning options for courses launched for the first time.
* Coordinated the production of 55 video lectures for an online course in Geography using the green screen technology. This course had a high enrollment and high student satisfaction.
* Converted two courses from print-based into online courses. Used E-learning principles to distribute the material (e.g., chunking text, using audio, or graphics that would help explain a concept with less words).
* Inserted exams, quizzes, discussion forums, and grading records in the LMS.
* Managed site analytics and extracted data from student performance for course evaluation during course production meetings.
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| **GLGT** (Green Liquid and Gas Technologies) 747 SW 2nd Avenue, Ste 315 Gainesville, FL 32601 | **August 2008 - Dec 2010** |
| **Research Associate** |  |
| * Conducted 50 experimental runs for design improvement and testing of novel modifications to a novel patented pyrolizer at high temperatures (1000°C), this led to the building of a prototype that was later sold to a research group at UF.
* Processed the collected data (temperatures, pressures, air to fuel ratio) to determine mass and energy balance and biogas and biochar production. This helped in later discussions on improvements and modifications to the system.
* Designed and built feed hopper and char collector for pyrolyzer system, from Autocad modeling to fabrication. Produced drawings for design and fabrication of complete patented pyrolyzer system for further fabrication.
* Trained end users of this system, from start-up to shut-down procedures. Provided visual and printed materials to these trainees before their actual training.
* Installed and tested controls and sensors for pyrolyzer: temperature and Oxygen, power sources, data acquisition system.
* Collaborated in the preparing a Business Plan with CEO to raise venture capital, specifically preparing the financial section of the plan.
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| **UF COLLEGE OF ENGINEERING** P.O. Box 116550 Gainesville, FL 32611 | **June – August 2010** |
| **Advanced Chemistry Instructor** |  |
| * Prepared and administered a pre-test to determine student needs. Designed and developed class materials based on the results from this test, targeting those subjects where students needed reinforcement.
* Added relevant media (video, images, audio) to the in-class instruction. Based on the administered exit survey, this helped students understand how the subject of the day is applied in industry, research and everyday life.
* The exit survey showed a 93% satisfaction from the class. Most of the negative feedback was related to the short amount of time we had to review the subjects.
* Concluded course with class having average grade of 83% (considering assessments, assignments, a final project, and a final exam).
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| **PERC UF** (Particle Engineering Research Center) 205 Particle Science & Technology, Gainesville, FL 32611 | **May 2003 – May 2008** |
| **Research assistant** |  |
| * Conducted 250 powder wall friction tests to measure interaction of particles with a simulated rough surface, using the Jenike shear tester. The results have produced content for a publishable paper.
* Employed the tilt table to measure wall friction in 120 experiments using different combinations of particles sizes and wall structures. These results were part of the paper mentioned above.
* Ran 20 tests using the Schulze ring tester to measure the mechanical and flow properties powders used in the wall friction tests. The data from this experiment is included in the paper mentioned.
* Built 12 DEM models using PFC3D for comparison to wall friction tests and flow properties measurements, for both an annular and cylindrical testers. The results were part of a second paper on simulation in preparation.
* Prepared 40 models in PFC3D to measure wall friction angle of particles interacting with structures that had a simulated roughness.
* Used EDEM to build 60 models to measure effective angle of internal friction and wall friction for a tester with periodic boundaries, these data has produced the results for a publishable paper.
* Supervised two undergraduate students that conducted photoelastic and wall friction tests.
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| **MAE UF** (Mechanical and Aerospace Engineering) 231 MAE-A, P. O. Box 116250 Gainesville, FL 32611 | **August 2000-May 2003** |
| **Research assistant** |  |
| * Produced a mechanical response model for a MEMS-based optical shear stress sensor, using non-linear mechanical analysis.
* Built optical set-up to capture Moire fringes created by microfabricated gratings on glass slides, by using a fast CCD camera.
* Used a vapor deposition chamber to deposit a 10 µm Aluminum layer on 10 glass slides, measured the thickness using a profilometer.
* Gained experience using spinning photolithography techniques to deposit photoresist on these 10 glass slides, exposed slides to UV light with a mask on top of it, this mask had the gratings with different pitches.
* Employed wet chemistry to etch away the aluminum and form the grating patterns, the photoresist was washed away and the final gratings were measured to determine exact pitch.
* Collaborated in process for chemical etching of two Silicon wafer substrates containing sensors.
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| **Education** |
| **M.S., Engineering Mechanics**August, 2003University of Florida, Gainesville, FL GPA: 3.50/4.00 |
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| **B.S., Mechanical Engineering**July, 1995Instituto Tecnologico de Merida, Merida, Yucatan, Mexico GPA: 90/100 |
| **Certifications** |
| **Articulate Storyline Certificate**, ATD | **November 1, 2016** |
| **Captivate 9 Essential Training**, Lynda.com | **June, 2017** |