

Experience	<b>Infosys Ltd</b> , Monterrey, Nuevo León, Mexico <b>Systems Engineer</b> , January 2013 to February 2015. Contractor for a Fortune 100 multinational banking and financial services corporation. Development, administration and support team for a global trade finance application used mainly in North America and Asia <ul style="list-style-type: none"><li>• Coded and tested new agents/batch-jobs or new features of existing jobs in Java, C#, JavaScript and Windows Batch</li><li>• Designed and implemented a Windows Script Host script in JavaScript to retrieve scanned image and metadata files from the scanner workstations to our server and prepare for further processing</li><li>• Fixed approximately 350 incidents, including code bugs, development of new features, customers with invalid data in production and outages</li><li>• On-call primary contact for approximately 20 weeks</li><li>• Led approximately 30 Request For Change procedures, mainly to install code updates and to update data via SQL scripts</li><li>• Supported production and test environments for clients and other teams in the bank</li><li>• Knowledge management via documentation of known issues and fixes, to coach offshore resources</li></ul>
	<b>Center for the Development of the Software Industry</b> , Monterrey, Nuevo León, Mexico. <b>Software Engineer</b> , October 2012 to January 2013 <ul style="list-style-type: none"><li>• Performed testing and quality assurance of an enterprise financial Web platform for a Mexican bank, implemented in Java Enterprise Edition and JavaScript</li></ul>
	<b>School of Physics and Mathematics at UANL</b> , Monterrey, Nuevo León, Mexico <b>Research Assistant</b> (internship), August 2011 to February 2012 <ul style="list-style-type: none"><li>• Developed and maintained robust control systems software in MATLAB and Simulink</li><li>• Co-authored one published paper: Basin, M.; Serna, M.; Lopez-Hernandez, P.I., <i>Central energy-to-peak filter design for uncertain linear systems</i>, Control Conference (ASCC), June 2013</li></ul>
	<b>School of Mechanical and Electrical Engineering at UANL</b> , Monterrey, Nuevo León, Mexico <b>Laboratory Assistant</b> (internship), February 2012 to August 2012 <ul style="list-style-type: none"><li>• Supported students with Python, MATLAB and LabVIEW programming and electronics</li></ul>
	<b>Education</b> <ul style="list-style-type: none"><li>• <b>Master of Information Engineering in Computer Science</b>, 2015, Autonomous University of Nuevo León. Overall Grade 94.5/100.0</li><li>• Bachelor in Mechatronics Engineering, 2012, Autonomous University of Nuevo León, graduated with honors, Overall Grade 95.9/100.0</li></ul>
Computer Skills	<ul style="list-style-type: none"><li>• <b>Languages:</b> Python, JavaScript, C#, Java, HTML, CSS, Bash/UNIX Shell Scripting</li><li>• <b>Data/Databases:</b> Microsoft SQL Server, Oracle, MySQL, SQLite, JSON, YAML, XML</li><li>• <b>Applications:</b> Microsoft Visual Studio, Visual Studio Code, Git, Toad, Cygwin, Vim, GNU Make, OpenSSH</li><li>• <b>Technologies:</b> Node.js, Docker, Spring, Hibernate, Sphinx documentation tools, Jekyll</li><li>• <b>Operating Systems:</b> UNIX (Fedora, Ubuntu, Red Hat Enterprise Linux, Android), Microsoft Windows (Server 2003, XP, Vista, 7, 8, 10),</li><li>• <b>Other:</b> Linux user for eight years, proficient with UNIX command line interface, technical documentation writing, homebuilt computers enthusiast</li></ul>
Other projects	<ul style="list-style-type: none"><li>• ASPNET5CO: Advocacy and Community. Efforts to advocate the ASP.NET Core framework, <a href="http://pedroivanlopez.com/aspnet5co">http://pedroivanlopez.com/aspnet5co</a></li><li>• Data structures and algorithms in C#, <a href="https://github.com/lopezpdvn/DataStructuresAlgorithmsCSharp">https://github.com/lopezpdvn/DataStructuresAlgorithmsCSharp</a></li><li>• mazerob: Bluetooth-remote-control robot implemented with Java Virtual Machines on a PC and a Lego NXT Brick, <a href="http://pedroivanlopez.com/mazerob">http://pedroivanlopez.com/mazerob</a></li><li>• printer73x: A computer numerical control system for printing binary images, <a href="http://pedroivanlopez.com/printer73x">http://pedroivanlopez.com/printer73x</a></li></ul>