

# Michael Aguilar, EIT

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(408) 829 9480

Portland, OR

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<b>Skills</b>	<i>FrontEnd:</i> TypeScript, React, ASP.NET MVC, Razor, Gatsby, GraphQL, Bootstrap, WINUI 3, HTML, CSS <i>BackEnd:</i> C#, .NET Core, Azure, ASP.NET API, PowerShell, SSRS, SQL, LINQ, Kusto, Docker, EF Core, Python <i>Version Control:</i> SVN, TFS, Git, GitHub <i>Databases:</i> MSSQL, SQLite, CosmosDB <i>CAD Software:</i> NX 8.5, SolidWorks, 3DVIA	
<b>Experience</b>	<b><u>Willis Towers Watson</u></b> , Portland, Oregon	June 2020 - Present
	<b>Software Developer III</b> Developer for Health and Benefits Administration applications <ul style="list-style-type: none"><li>• Ensure system uptime of 99.99% and SLA compliance for client with 1,000,000+ employees</li><li>• Implemented parallel processing in our employee calculation job, increasing throughput by ~300%</li><li>• Developed end to end testing tool, facilitating historically manual process for regression testing</li><li>• Utilized Azure cloud services to build data pipeline/visualization dashboard for production exceptions</li><li>• Collaborate with BAs, providing complex SQL queries, stored procedures, and data review</li><li>• Full stack support for React SPA, client REST API, MVC web app, and MSSQL DB</li><li>• Created reusable C# base class to automate several manual report processes for business analysts</li><li>• Coordinated with client and 3<sup>rd</sup> party vendors for requirements and SSO maintenance</li></ul>	
	<b><u>Hyster-Yale Group</u></b> , Fairview, Oregon	November 2015-June 2020
	<b>Mechanical Engineer II, Global Product Development Processes</b> Developer for Lift Truck Configurator, Stability Analysis Software, and Capacity Plate Generation <ul style="list-style-type: none"><li>• Followed SOLID/OOP principles to develop .NET applications to automate truck stability processes</li><li>• Cooperated with IT to interface new ordering system with existing design/manufacturing tools</li><li>• Integrated new automation process with global manufacturing to handle 80,000+ orders annually</li><li>• Coordinated company-wide with stakeholders to define business requirements for new configurator</li><li>• Managed engineering data and stability validation for several new truck releases in ratings program</li><li>• Applied Agile and TDD concepts to help implement new nameplate printing system</li><li>• Conducted global on-site training to support roll out of Polarion product lifecycle management tool</li><li>• Work with Legal/Standards depts. to ensure truck capacity plates comply with ASME/ISO regulations</li><li>• Collaborate with global engineering design teams to align stability models with test data</li><li>• Re-analyzed truck stability behavior to confirm a 25% gain in capacity compared to prior publications</li><li>• Review change requests, communicate with customers, and update code base for production</li></ul>	
	<b><u>Corbin Consulting Engineers, Inc.</u></b> , Hillsboro, Oregon	July 2015-November 2015
	<b>Mechanical Engineer</b> Mechanical Designer for industrial MEP and HVAC systems <ul style="list-style-type: none"><li>• Designed chilled water cross tie system for Intel Jones Farm Campus and coordinated with customer</li><li>• Produced new P&amp;IDs for multiple chiller systems. Updated PFDs and plan views for construction</li><li>• Calculated pressure losses, thermal expansion, flow rates, and sizing for proposed piping/ductwork</li></ul>	
<b>Education</b>	<b><u>Portland State University</u></b> , Portland, OR Bachelor of Science in Mechanical Engineering, Multiple Engineering Cooperative Program (MECOP)	
	<b><u>Santa Clara University</u></b> , Santa Clara, CA Bachelor of Science in Environmental Science, Minor in Biology	
<b>Websites</b>	<i>Portfolio:</i> <a href="https://michaelpaguilar.netlify.app">https://michaelpaguilar.netlify.app</a> <i>Github:</i> <a href="https://github.com/michaelpaguilar">https://github.com/michaelpaguilar</a> <i>LinkedIn:</i> <a href="https://www.linkedin.com/in/michaelpaguilar">https://www.linkedin.com/in/michaelpaguilar</a>	