Mike Belie

Senior Software Engineer

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Winchester, CA • Melissa, TX

Accomplished and detail-oriented professional with extensive experience in developing innovative software solutions for a variety of industries, including medical, life science, industrial automation, and financial technology. Proficient in utilizing multiple programming languages and frameworks to deliver scalable and efficient solutions. Proven track record of engineering applications and streamlining operations. Possess strong aptitude for mentoring and fostering growth within technical teams. Committed to implementing best practices and engineering standards to elevate team productivity and software quality.

Technical Proficiencies

Languages	C#, C++, C++/CLI, Java, Dart, JavaScript, TypeScript
Technologies	.NET, ASP.NET Core, Flutter, WPF/MVVM, Docker, RDBMS, Graph DBMS, MSSQL, SQLite, Entity Framework, Vue, Angular, AWS, Azure, REST, WCF, Web Components (LitElement), Protobuf, JSON, HTML, CSS, SCSS, jQuery, MSCRM/Dynamics 365, CodedUI/UIA, PowerOn/SymXchange
Other	Data Structures, OOD/OOP, SOLID, Industrial Automation (OPC/UA), Motion Control (ACS, Copley, Maxon), Machine Vision (VisionPro, OpenCV), UI Automation, Unit Testing, CI/CD, IIS, UML, Git, Jenkins, Agile, Dependency Injection, Static-Code Analysis, Crash Analysis, Application Profiling

Professional Experience

NOVO Engineering, Vista, CA   **2018 — Present**
Principal Software Engineer

Develop cutting-edge software solutions for medical, life science, and industrial automation applications. Engineer robust applications with Flutter, .NET, WPF, C#, Angular, and ASP.NET Core. Create HMI software for robotics projects, utilizing both thick and thin client applications. Mentor junior engineers, provide guidance and foster professional growth.

- Designed and implemented marketable application to replace in-house Excel resource tracking tool, ensuring data integrity, facilitating collaboration among multiple users, eliminating manual errors, and automating processes.
- Enhanced patient safety in spinal surgeries by creating collision detection features, elevating surgeon planning capabilities and confidence.
- Implemented transient fault handling in automation robots to prevent costly workflow interruptions, loss of product, and lengthy reboot sequences.
- Successfully integrated production floor robot software with back-end automation controller (PAC) via OPC/UA.
- Developed imaging segmentation routine to automate analysis of plant-callus anatomy, reducing manual error.
- Improved automation robot efficiency by approximately 50% through parallelization of image processing routines.
- Crafted approximately 12 distinctive web components, enhancing overall functionality.
- Exceeded position expectation and promoted from Senior Software Engineer to Principal Software Engineer.

Symitar (JHA), San Diego, CA   **2012 — 2018**
Software Engineer Advisory

Developed and enhanced user interface and single sign-on capabilities for Episys Quest, key application for credit union transaction processing. Engineered encrypted flight recorder for post-mortem bug analysis and debugging. Implemented software engineering best practices and performed code reviews. Co-created managed-coding standards and unit testing guidelines for UX team. Mentored software development engineers in test (SDETs).

- Volunteered for 18-month automation initiative to instill software engineering best practices, resulting in enhanced team processes and code quality.
- Increased test automation efficiency by creating custom API, resulting in sub-second automation routines versus multi-second legacy counterparts.
- Designed XML-based test automation framework to generate 25K+ tests in one year.
- Exceeded position expectation and promoted from Senior Software Engineer to Software Engineer Advisory.
- Recognized as "Employee of the Quarter" in December 2017.

Hitachi Solutions, Irvine, CA   **2011 — 2012**
Senior Consultant

Engineered web service integration between client's ERP and CRM system and automated customer and product information validation. Created MSCRM deal flow and pipeline tracking module which enabled workflow definition and user interaction through intuitive GUI ribbon.

- Streamlined client operations by transforming manual validation process into sub-second automated solution.
- Designed and implemented GUI-based deal flow tracking module, elevating enterprise workflow management.
- Identified and remedied system inefficiencies, contributing to enhanced operational workflows and user experiences.

Additional Experience

Order One Software, San Diego, CA   **2004 — 2013**
Software Engineer

Education

Bachelor of Arts in Interdisciplinary Computing and the Arts Major (ICAM)

University of California San Diego, San Diego, CA

Voluntary Experience

Certified-Intermediate AYSO Referee