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Mike Belie

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Skills

- **Languages**: C#, C++, C++/CLI, Java, Dart, JavaScript, TypeScript, Python
- **Technologies**: .NET, ASP.NET Core, Flutter, WPF/MVVM, SQL, Vue, Angular, MSCRM, AWS, Azure, REST, WCF, Web Components (LitElement), Protobuf, HTML, CSS, SCSS, Three.js, Reactive Extensions (Rx), SignalR/Web Sockets, CodedUI/UIA, PowerOn/SymXchange
- **Other**: Data structures, OOD/OOP, SOLID, relational databases, industrial automation (OPC/UA), motion control (ACS, Copley, Maxon), machine vision (VisionPro, OpenCV), UI automation, unit testing, CI/CD

Professional Experience

Principal Software Engineer   NOVO Engineering - Vista, CA   **Feb 2018 - Present**

- Wrote an internal resource tracking application to replace a manual Excel process. Leveraged a Flutter front-end with an ASP.NET Core back-end
- Improved patient safety and surgeon confidence by creating a collision detection feature that allows surgeons to visualize and avoid collisions between a patient's spinal anatomy and surgical hardware while planning for spinal surgeries.
- Drastically increased software performance of an automation robot by parallelizing existing image processing routines
- Prevented costly workflow disruptions by adding transient fault handling to an automation robot
- Built HMI software for various robotics projects using both thick & thin client applications
- Provided software architecture and development for various client projects
- Created an imaging segmentation routine that differentiated various aspects of plant-callus anatomy
- Integrated a client's production robot software with PAC via OPC/UA
- Produced numerous web components
- Promoted from Senior Software Engineer to Principal Software Engineer
- Mentored junior engineers

Software Engineer Advisory   Symitar (JHA) - San Diego, CA   **Mar 2012 - Feb 2018**

- Developed product features for Symitar's flagship product, Episys Quest
- Designed and implemented an encrypted flight recorder for use in postmortem debugging of Symitar software
- Responsible for extreme increases to test automation speed by adding a custom automation API that enabled automation frameworks to drive the product GUI
- Authored an XML-based test automation framework which led to the creation of 25K+ automation tests in a 12-month period
- Brought software engineering best practices to the automation team during an 18-month volunteer engagement
- Co-authored managed-coding standards and unit testing best practices for the UX group
- Promoted from Senior Software Engineer to Software Engineer Advisory
- Received employee of the quarter in Dec 2017

Senior Consultant   Hitachi Solutions - Irvine, CA   **Jul 2011 - Mar 2012**

- Converted a manual, multi-step, validation process into an automated, near-instantaneous, one by creating/exposing an AX web service to an MSCRM instance that validated customer/product information
- Built an MSCRM deal flow/pipeline tracking module which enabled enterprises to define workflows for end users to follow/interact with via a GUI ribbon. User interactions were captured and used to drive subsequent workflow and track deal flow progress

Senior Software Engineer   **Order One Software - San Diego, CA**   **Jul 2004 - Jul 2013**

- Produced an XML driven user interface engine written in C# that allowed a client to rapidly produce custom web form mash-ups of MSCRM fields from disparate entities. Permitted the client to visualize data in ways not otherwise supported in MSCRM
- Created a CD based (no install footprint) application in MFC/C++ for testing medical hardware. Deployed on the production floor of a Fortune 500 corporation
- Made a photo kiosk application in .NET with card reader integration, image processing, and custom form controls
- Developed a financial calculator utilized by a client to rapidly prototype and visualize the various financial aspects of property leases

Education

- **BA ICAM (Interdisciplinary Computing and the Arts Major),** University of California San Diego, San Diego

Volunteer

- Certified-Intermediate AYSO Referee