mike.belie@gmail.com
858-603-4988
Winchester, CA

Mike Belie

linkedin.com/in/mikebelie

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
- Crafted 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. Improved patient safety and surgeon confidence in screw plans
- Enhanced C# image processing/machine vision features of an automation robot to leverage parallelism which drastically increased product performance
- Added transient fault handling to a robot product which prevented costly workflow disruptions
- 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 using LitElement
- 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
- Implemented a custom automation API using WCF that enabled automation frameworks like CodeUI to drive the product GUI which resulted in extreme increases to test automation speed
- Authored a test automation framework that allowed tests to be written in XML. Lead 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**

- Crafted a validation tool in MSCRM that facilitated the verification of client customer/product information, real-time, against their MSAX-ERP system. Turned a time consuming, multi-step, manual process into an automated near instantaneous one
- Built a deal flow/pipeline tracking tool that could be installed as a module in any MSCRM instance. Enabled the definition of workflows for end users to follow and 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

Software Contractor   **Multiple Companies - CA**   **Jul 2000 - Jul 2004**

- Held various full-time and contract positions developing web and desktop applications
- Taught a course at Learning Tree University called Advanced Web Animation in Flash: Interactivity with Actionscript

Education

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

Extracurricular

- Certified-Intermediate AYSO Referee