# Victoria Albanese

To find my contact information, please visit the "Contact Me" section of my website!

## Education

**University of Massachusetts**, Lowell, MA Expected May 2018
Bachelor of Science in Computer Science, Minors in Robotics and Mathematics
GPA: 3.9, Member of Honors College

*Relevant Coursework: Data Structures, Object Oriented Programming, Intro to Software Engineering, Computer Organization and Assembly Languages, Logic Design, Discrete Structures I-II*

## Industry Experience

**Software Engineering Co-op, Symbotic LLC**, Wilmington, MA | June 2016 – August 2016
- ❖ *Created "Life of an Order" web application which searches a database and parses log files to display data and metrics on the lifetime of an order through a warehouse automation system; responsible for both front-end design with HTML and CSS and back-end development using C#, ASP.NET, Razor, and NancyFX*
- ❖ *Produced sequence and class diagrams as part of extensive architectural design prior to project's start*
- ❖ *Unit tested the application to 100% code coverage, utilizing the NUnit test framework and Moq*
- ❖ *Underwent intensive Agile and Scrum training; groomed, pointed, was assigned, and completed stories during two-week sprints using Version One, and participated actively in retrospectives and standups*

**Engineering Intern, Omtool Ltd.**, Andover, MA | May 2014 - January 2015
- ❖ *Automated UI tests on installation wizards by using QAlibers Test Builder to simulate real user input*
- ❖ *Exposed to the Agile methodology, specifically Scrum, by participating in semiweekly standup meetings*

## Lab Experience

**Software Developer, University of Massachusetts**, Lowell, MA | February 2016 - present
- ❖ *Maintaining a data-visualization website by identifying bugs, developing creative solutions on a whiteboard with coworkers, and then implementing them in C++, HTML, and CSS code*
- ❖ *Crafting a series of video tutorials for the site by writing a shooting script and editing the video with Windows Movie Maker; revamped the webpage for the tutorials, utilizing JavaScript, HTML, and CSS*
- ❖ *Demonstrated the site with my team at the 2016 USA Science and Engineering Festival in Washington DC to hundreds of parents and children to engage them in and show the importance of data visualization*

**Research Assistant, University of Massachusetts**, Lowell, MA | September 2015 - December 2015
- ❖ *Gathered video and audio from a NAO robot by writing a publisher, which extracts data from its cameras and microphones, and subscriber, displaying it live to a UI, all in C++ and utilizing Robot Operating System*
- ❖ *Created a "Who Am I?" demo by integrating facial recognition with the NAO's cameras with OpenCV, associating recognized faces with a name, and displaying everything as a game in a UI designed with Qt*
- ❖ *In doing all this, contributed to Dr. Momotaz Begum's research on developing a machine learning algorithm to make the NAO autonomously deliver therapy to children with autism spectrum disorders*

**Robotics Lab Intern, University of Massachusetts**, Lowell, MA | July 2015 - August 2015
- ❖ *Iteratively wrote a program in C which enabled the NAO robot to stand up from a lying down position, from both face-up and face-down, by publishing commands to the myriad motors at the robot's joints*
- ❖ *In doing all this, contributed to a larger program which allowed the robot to detect which state it was in (standing or lying down), get up if it had fallen, and then avoid obstacles as it walks around the room*

## Technical Summary

**Operating Systems**: Linux, Windows
**Programming Languages**: C#, C++, C, Razor, HTML, CSS, JavaScript, familiar with MIPS Assembly
**Version Control:** Git, Subversion, Team Foundation Server (TFS)
**Software:** Robot Operating System (ROS), ASP.NET, NancyFX, NUnit, Moq, OpenCV, Qt, Version One, Windows Movie Maker, QAlibers Test Builder, Adobe Photoshop, Dreamweaver, Prezi