

## Tony De La Nuez

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Portfolio Site: tonydelanuez.me

### Education

#### Washington University in St. Louis

August 2015 - May 2018

Master of Science in Computer Science

Bachelor of Science in Computer Science, Minor in Electrical Engineering

#### St. Mary's College of California

September 2012 - May 2015

Bachelor of Arts in Liberal Arts, Physics/Engineering Focus

### Technical Skills

<b>Languages:</b>	Java, HTML, CSS, JavaScript, Familiar with Ruby, Python, & MATLAB
<b>Libraries/Frameworks:</b>	jQuery, Bootstrap
<b>Deployment/Management:</b>	Git, Heroku, XAMPP
<b>Software:</b>	Eclipse IDE, AutoCAD, Microsoft Office, FactoryTalk View
<b>Methodologies:</b>	Object Oriented Programming, Lean/Six Sigma process evaluation

### Experience

#### Freelance Web Development

August 2016 - Present

- Consulted with client to discuss wireframes, website goals, and functionality
- Designed and deployed web sites including writing and editing functional pages with user interaction

#### G3 Enterprises - Modesto, CA

Engineering Intern, G3 Corporate Engineering

June 2016 - August 2016

- Constructed detailed floor plans of plant and machine layout and designed duct system to transport waste
- Designed HMI and PLC for cork printing automated machinery and transformer room information panels
- Created SOP for refractive window dryer with step-by-step testing protocol and diagrams for easy use by operator
- Analyzed cap transportation; implemented feeding change resulting in 40% improvement of yield

Engineering Intern, Mobile Bottling Division

June 2014 - August 2014

- Assisted bag-in-box wine trial; reduced dissolved oxygen introduced to the product by 20% of industry standard
- Created bottling process revisions to eliminate choke points caused by inefficient machinery or time management

#### E&J Gallo Winery - Modesto, CA

Control Systems Engineering Intern, Corporate Engineering

June 2015 - August 2015

- Designed PLC system to automate wine tank ON/OFF valves and flow pressure during product cycles and cleaning
- Relocated and organized plant machine set variables in Excel by pulling data from control database and archives

Engineering Intern, Global Customer Services and Logistics

June 2012 - August 2012

- Organized and led Kaizen to evaluate a systematic error in international processing and improved process time by 60%
- Redesigned shipping container parking lot

#### Gallo Glass Company - Modesto, CA

Engineering Intern, GGC Engineering

June 2013 - August 2013

- Led research, scope of work writing, and contracting for \$300k project to reuse water and create zero discharge facility
- Formulated solution to machine error in product packing, created write-up and implementation program
- Constructed electronic library for all manufacturing plant manuals

### Projects/Extracurricular Activities

#### Twitter4J Research Project: Using Twitter API for Geolocation

September 2016 - Present

- Currently assisting Dr. Cytron at Washington University in St. Louis in developing a Java tool using Twitter4J library and Twitter IPA to survey events and popular topics in certain areas based on Twitter traffic.

#### Echocardiogram Design Project

February 2016 - May 2016

- Demonstrated ECG use of human heart as voltage source; constructed amplifying circuit with grounding, common-mode voltage filtering, Wilson's central terminal to convert heart signal to ECG waveform viewable on a computer

#### St. Mary's College of California Men's Rugby

September 2012 - May 2015

- 2014 USA Rugby D1A National Champion
- 2015 USA Rugby D1A National Champion