Tony De La Nuez

Tony.DeLaNuez@gmail.com | 209-761-9676| linkedin.com/in/tonydelanuez
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

Languages

- Java, HTML, CSS, JavaScript, Basic Python & MATLAB

Libraries/Frameworks

- jQuery, Bootstrap

Deployment/Management

- Git, GitHub, Heroku, BitBucket

Software

- Eclipse IDE, AutoCAD, Microsoft Office

Methodologies

- Object Oriented Programming, Lean/Six Sigma process evaluation and efficiency techniques

Experience

G3 Enterprises – Modesto, CA — June 2016 – August 2016

Engineering Intern, G3 Corporate Engineering

- Constructed detailed floor plans of plant and machine layout
- Designed HMI and PLC controller tag functionality for equipment
- Created Standard Operating Procedure for refractive window dryer with step-by-step testing protocol and diagrams for easy use by operator
- Researched transportation of container caps; implemented change in pneumatic feeding resulting in improvement of acceptable product from 56% to 96% and eliminated production equipment jams
- Designed air duct system to transport waste material
- Constructed PLC and display template for transformer room panels to report vital condition properties and provide remote access to settings

E&J Gallo Winery – Modesto, CA — June 2015 – August 2015

Control Systems Engineering Intern, Corporate Engineering

- Designed and assisted in code development for PLC system which was used 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

G3 Enterprises – Modesto, CA **June 2014 – August 2014**

Engineering Intern, Mobile Bottling Division

- Assisted oversight of an experimental trial with bag-in-box wine packaging; resulted in a reduction of 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

Gallo Glass Company - Modesto, CA **June 2013 – August 2013**

Engineering Intern, GGC Engineering

- Led research, scope of work writing, contractor relations, and bid awarding for $300,000 project to efficiently reuse discharge water from O2 plant and glass plant to 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 (SharePoint, HTML, CSS)

E&J Gallo Winery - Modesto, CA **June 2012 – August 2012**

Engineering Intern, Global Customer Services and Logistics

- Organized and led Kaizen (Lean/Six Sigma continuous improvement meeting) to re-evaluate a systematic error in international processing and improved process time by 60%
- Redesigned shipping container parking lot (AutoCAD)

Projects/Extracurricular Activities

Echocardiogram Design Project **February 2016 – May 2016**

- Demonstrated the principles behind the echocardiogram use of human heart as a voltage source; constructed an amplifying circuit to convert signal from heart to ECG waveform viewable on a computer
- Implemented proper grounding, common-mode voltage filtering, Wilson's central terminal concepts to find leads that would improve the accuracy and reliability of generated amplified waveforms.

Electric Bike: Preparing for the Zombie Apocalypse **February 2015 – May 2015**

- Designed and built variable resistor throttle system for an electricity-powered bicycle made from majority of parts found in a junkyard/scrap or pulled from old electronics
- Constructed throttle system using variable resistor and amplifying circuit to control the speed of the DC motor

St. Mary's College of California Men's Rugby **September 2012 – May 2015**

- 2013 USA Rugby DIA National Runner-Up
- 2014 USA Rugby D1A National Champions
- 2015 USA Rugby D1A National Champions