



TJC
and ASSOCIATES, Inc.

Spring The TJCAA Quarterly

2018

www.tjcaa.com

Message from the President

Employment Opportunities

TJCAA is now an Ignition Core Certified Integrator

TJCAA's Business Certifications

- Alameda County Small, Local Emerging Business
- Bay Area Green Business Program, Green Business
- City of Oakland Local Business Enterprise
- California DGS Small Business (SBE)
- Port of Long Beach SBE
- Port of Oakland LIABE/SBE/VSBE
- San Diego County Water Authority SBE
- SoCal Network SBE
- Sacramento Municipal Utilities District (SMUD) SEED Vendor

Message from the President, Gianna Zappettini

I have been plagued by a "frozen shoulder" since late last year and that has put quite a crimp in my active lifestyle.

Fortunately, I am working with a physical therapist who is an expert in her field and has me moving forward in my quest to return to the gym and the tennis courts. It also helps that she has a very likable companion working by her side who greets me with tail wags and sloppy puppy kisses each time I go for treatment. If you are also looking for an expert—for your structural, electrical, instrumentation, controls, or control systems programming engineering needs—look no further than TJCAA for your next project. Not only can I promise you excellent services, but you will also find our staff to be very likable!



TJCAA is now an Ignition Core Certified Integrator

We are happy to report that TJCAA is now a Core Certified Integrator for Inductive Automation's Ignition software, one of the software packages we use in developing SCADA systems and human-machine interfaces for our clients. The Ignition Core modules can be used to create industrial automation solutions, including SCADA, and users can add features such as charts and tables, mobile access, voice notifications for alarms, transaction management, and sophisticated logic systems. (inductiveautomation.com)

TJCAA Electrical Engineer Lee Meyer, P.E., who is TJCAA's Ignition Core certification holder, provided some examples. For an Ignition-driven SCADA system under development for a wastewater treatment plant, we're deploying Ignition's redundancy module, which allows operation of two servers in parallel, to provide cold-standby redundant support in case of a server failure. For the same project, we're working with a module for SMS alarming via Twilio, an online service that will provide text-messaging alarms and eliminate the need for an external modem.

TJCAA offers development services for the Ignition suite (among many software options available for our SCADA projects). Ignition offers several advantages that benefit our clients, Lee explains: no tag limits on licensing, which makes selecting and sustaining the system easier; readily available pricing and information; and a user friendly, intuitive interface. Lee also notes that that adding module licenses is easy, and updates to all active clients can be distributed with a single click.

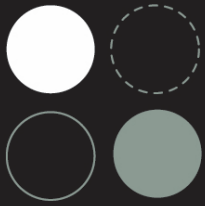
Employment Opportunities



TJCAA is looking for qualified engineers to work on great projects with great people. To view and apply for open career positions, visit our website at www.tjcaa.com.

Copyright 2018 TJC and Associates, Inc. All Rights Reserved

- Structural Engineering • SCADA • Electrical Engineering • Instrumentation and Controls • Control Systems Programming •



TJC

and ASSOCIATES, Inc.

Spring The TJCAA Quarterly

2018

www.tjcaa.com

TJCAA is now an
Ignition Core
Certified
Integrator

Featured
Employee

To earn the Core certification, Lee first had to pass all of Inductive Automation's free online university courses (50+ hours of videos & testing). After that, he took the Core certification test. According to Inductive Automation, the Ignition Core Certification test covers "architecture, real-time status and control, historical data logging, user-defined types and templates, and alarming. It is designed to test your understanding and knowledge of Ignition." The test included about 8 hours of troubleshooting prompts and development challenges, Lee told us. (He passed handily, by the way.)

Congratulations, Lee! TJCAA's status as a Core Certified Integrator provides us great access to support and discounts for Ignition products. If you have questions about developing or upgrading a SCADA system, please contact us.

Featured Employee — Eileen Nakamura



Eileen Nakamura, P.E.

This edition's featured employee is Eileen Nakamura, P.E., who has been with TJCAA since 2008. Eileen is an Electrical Engineer with design experience in electrical power distribution, electrical industrial applications, control systems, and instrumentation.

Eileen is a native of Torrance, in Southern California, but has been a Bay Area resident since 1995. She tells us that living in Walnut Creek is great, and

the city has changed and grown quite a bit since she first moved there. "There are more diverse restaurants and demographics—it has kept up with Bay Area growth and dynamics." She points out that at the same time, "it still feels like a small town." There is a nice community feel, Eileen explains, with collaborative involvement between the City and its residents, especially parents involved with the schools and youth programs.

She knows a thing or two about keeping youth programs moving. Eileen sits on the Board for the Northgate High School Instrumental Music Boosters as the Secretary and incoming Vice President. She helps to coordinate an impressive high school music program that serves 200 students and includes 7 musical groups (Symphonic Band, Marching Band, Jazz Band, and other ensembles). The Boosters coordinate events and logistics for the groups, which perform locally and travel to competitions and festivals. Eileen's children Daniel (16) and Emily (14) performed with the Symphonic and Concert Bands recently on baritone saxophone and clarinet, respectively, at its Winter Concert. You can catch Northgate's musical groups again this spring at the beautiful Leshner Center for the Arts in Walnut Creek.



Daniel Nakamura performing on baritone sax.



Curalium Consulting provides technical writing and editing services for engineers and scientists.

curalium.com
(916) 863-0822

Copyright 2018 TJC and Associates, Inc. All Rights Reserved

- Structural Engineering • SCADA • Electrical Engineering •
- Instrumentation and Controls • Control Systems Programming •



TJC
and ASSOCIATES, Inc.

Spring

The TJCAA Quarterly

2018

www.tjcaa.com

Featured
Employee

Did you know?

In addition, as the Membership Chair for the Northgate High School Athletic Boosters, she helps coordinate and support the high school's athletics program. The group raises funds to keep the school's vibrant athletic teams running and to provide enhancements such as the Sports Medicine Program. This beneficial service puts a certified athletic trainer, along with students in the field of Sports Medicine, at each game.

That's a busy schedule of volunteering, but as Eileen puts it, "With two kids [both playing soccer and music] in the programs, I feel like I need to step up my game and help out." TJCAA's clients benefit from her help with many of our designs, as well. She has experience designing medium and low-voltage electrical distribution systems for water, wastewater, and industrial waste treatment facilities; plant and pump station instrumentation; and SCADA for in-plant and telemetry-based systems. She also has provided engineering services during construction, and for facility startup during design-build projects.

Ms. Nakamura knew fairly early on that electrical engineering was the right career choice. In high school, she discovered that she enjoyed math, science, and physics. When she started at California Polytechnic State University San Luis Obispo (where she earned a Bachelor of Science in 1994) she had to declare a major. Knowing that "everything in college math was interesting to me," she listed Electrical Engineering as her top choice. We're glad she did!

Eileen is based out of TJCAA's Walnut Creek Office, where she works part-time. She tells us that she enjoys the spacious layout, easy parking, and short

commute with our Walnut Creek location, which opened in December 2016. "It's another nice TJCAA office for clients to come by, too" she says, noting that the WC Office is near many of our East Bay clients and partners.

"It's so much like a family," she says about working at TJCAA. Eileen has been in the consulting business since 1995, and notes that she has known our Electrical Engineering leader, Paul Giorsetto, since 1998. She appreciates her coworkers, their experience, and their knowledge of the field. "What gets me in the door, in addition to the interesting niche work that we do, is coworkers who are pleasant and cooperative." Thanks, Eileen!

Did you know?



Paul playing trumpet

Did you know that the sweet tunes you hear on our phone system, if you ever happen to be on a brief hold, are the Junius Courtney Big Band, featuring our own Paul Giorsetto on trumpet? The songs we're enjoying now

are "Savoy" and "Sweet Lorraine" from the band's "US" album. (CDs are available!) You can also catch Paul at a couple of upcoming shows with The Kelly Park Big Band at The Sound Room, 2147 Broadway in Oakland. See below in our Dates to Note section and get more info at kellyparkbigband.com.

Copyright 2018 TJC and Associates, Inc. All Rights Reserved

•Structural Engineering•SCADA•Electrical Engineering•
•Instrumentation and Controls•Control Systems Programming•



TJC

and ASSOCIATES, Inc.

Spring The TJCAA Quarterly

2018

www.tjcaa.com

Sporting News

Entertainment
News

Sporting News — Washington and Cal Berkeley dominate the PAC-12 Rowing Championships



istock.com/ogergo

The Pac-12 Rowing Championships will take place on May 13 at the Sacramento State Aquatic Center in Gold River, California, just

around the corner from TJCAA's Gold River Office. These races, held on the beautiful Lake Natoma, are incredible feats of strength, teamwork, and grace, in which synchronized crews power their shells (boats) in head-to-head competitions.

Our "local" NCAA conference has a history of tough competition, but Washington and Cal have dominated the men's conference championships during the last 58 years, winning 64% and 28% of the Pac-12 titles, respectively. The Washington and Cal women also cleaned up during the last 31 years, with 48% and 39% of the titles, respectively (pac-12.com). We're pretty happy with those records—

Warren Cavanagh, the founder of the original TJCAA family company, CI Professional Services, is a Washington Alum, and the founders of TJCAA went to Cal. Go Huskies and Bears!

If you're in the area, we recommend checking it out on race day. Insider tip: the best way to arrive at the race venue is by bicycle on the world-class American River Bike Trail.

Entertainment News— Maker Faire

This year's flagship Maker Faire in San Mateo runs May 18–20, and if you haven't been to one yet, you should check it out! An expansive spectacle and exposition, this year's Maker Faire is slated to have more than 800 exhibits, 6 stages, and an array of inventions, gadgets, and art, with opportunities for learning, tinkering, and exchanging ideas with others who enjoy making things and "making things happen." You might see a life-size mousetrap game, feel the heat of a flame-throwing snail car, and chat with an astronaut, all in one day. You might even get to ride on some seriously fun bicycle contraptions. It's a blast! (makerfaire.com)



Photo by curalium.com

Copyright 2018 TJC and Associates, Inc. All Rights Reserved

•Structural Engineering•SCADA•Electrical Engineering•
•Instrumentation and Controls•Control Systems Programming•



TJC

and ASSOCIATES, Inc.

Spring The TJCAA Quarterly

2018
www.tjcaa.com

Dates to Note

Dates to Note

Mar 20	The Vernal Equinox	May 18–20	Maker Faire Bay Area, San Mateo Event Center
Mar 25	Formula One Season Opener	May 19	Preakness Stakes
Mar 25	Kelly Park Big Band, The Sound Room, 5–8 PM	May 20	Indy 500 Qualifying: Pole Day
Mar 29	Major League Baseball Opening Day (The earliest date in history!)	May 22	Northgate High School Concert at Leshner Center for the Arts
Apr 5–8	The Masters at Augusta	May 27	F1 Grand Prix De Monaco
Apr 14	NBA Playoffs	May 27	102 nd Running of the Indy 500
Apr 17	Taxes Due	Jun 9	Belmont Stakes
Apr 22	Earth Day	Jun 1–3	Intercollegiate Rowing Association National Championship at Mercer Lake - Princeton, NJ
Apr 29	Kelly Park Big Band, The Sound Room, 5–8 PM		
May 5	Kentucky Derby		
May 13	2018 Pac-12 Rowing Championships at Sacramento State Aquatic Center	Jun 14/Jul 15	21 st FIFA World Cup, Russia

Copyright 2018 TJC and Associates, Inc. All Rights Reserved

•Structural Engineering•SCADA•Electrical Engineering•
•Instrumentation and Controls•Control Systems Programming•