

TJC

and ASSOCIATES, Inc.

Spring The TJCAA Quarterly

www.tjcaa.com

2017

Message from the President

Employment Opportunities

TJCAA Awarded Large CSP Project

TJCAA Welcomes New Employees

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 Micro Business (SB (micro))
- Port of Long Beach SBE
- Port of Oakland LIABE/SBE/VSBE
- San Diego County Water Authority SBE
- SoCal Network SBE
- CA PUC WBE
- Sacramento Municipal Utilities District (SMUD)

Message from the President, Gianna Zappettini



It is just a little over a week since most of us had to "spring forward" into Daylight Savings Time. Some of us adapt to the change without issue; others struggle a bit but eventually catch up to the loss of an

hour. Some claim that productivity increases during Daylight Savings Time, which would mean that we are less productive when we are not on Daylight Savings Time. As a company, TJCAA is productive whether it is Daylight Savings Time or not. Therefore, we welcome the opportunity to "spring forward" into the next project that comes our way and we won't "fall back" on our productivity when Daylight Savings Time ends on Sunday, November 5.

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.



TJCAA Awarded Large CSP Project

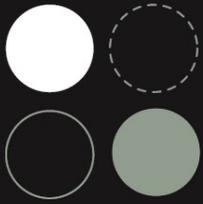
We are proud to announce that through the efforts of Mike Erwin, a Principal at TJCAA, we have been awarded a \$4 Million control system programming project for a major East Bay water district. TJCAA will lead this challenging project with Mike as Project Manager, and our team will include Telstar (a local panel fabricator and control system contractor) and Modicon/Schneider Electric (an equipment/software supplier and control networking technical specialist). We anticipate performing this work over the next three years out of our Oakland and Walnut Creek Offices. Mike will be supported by our talented Instrumentation, Controls, and Electrical Group, which includes Lee Meyer and Jacqui Okubo as Project Engineers and the two newest members of our TJCAA family, McKenzie and Manan (see below). Stay tuned for more information regarding this exciting project in future newsletters!

TJCAA Welcomes New Employees!

TJCAA is pleased to welcome two new employees to the family: **McKenzie S. Campagna** and **Manan S. Bhatt!** See their introductions on the next page.

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**TJCAA Welcomes
New Employees!**



McKenzie is an Electrical Designer who will be working with our Instrumentation, Controls, and Electrical Group in our Oakland Office. She earned her BS in Electrical Engineering from San Francisco State

University, where her work included solar power applications. Her experience as an intern in the transportation field included design and assembly of instrumentation, as well as single-line diagram development. In support of our senior and staff engineers, she will be focusing on electrical applications and control systems; power calculations; developing design layouts for conduit, circuiting, and lighting plans; preparing conduit schedules; and preparing engineering calculations used for equipment sizing and specifications.

Manan is an Electrical Designer who will also be working with TJCAA's

Instrumentation, Controls, and Electrical Group in Oakland. He brings with him extensive knowledge of SKM Power*Tools©, a suite of power system analysis software that TJCAA uses to model and analyze electrical systems for our clients' facilities. His experience providing technical support, troubleshooting, and modeling at SKM Systems Analysis, Inc. and his familiarity with other electrical engineering software will be a benefit to our clients, as well. Manan earned his BS and MS in Electrical Engineering from Sardar Patel University and California State University Northridge, respectively, and he is an active member of the Institute of Electrical and Electronics Engineers.



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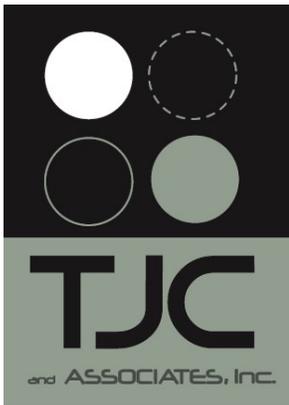
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**Please join us in
welcoming them both to
the TJCAA family!**

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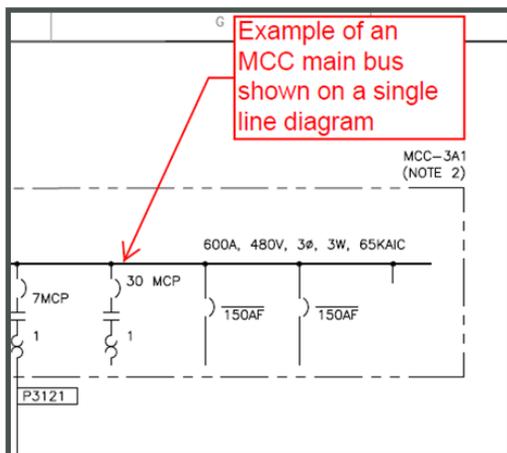
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Did you know?

Did you know? What's a bus?

Chances are, even your preschooler understands that a bus is "a large motor vehicle carrying passengers by road, typically one serving the public on a fixed route and for a fare." (oxforddictionaries.com) But do you know what a bus in an electrical system is?

TJCAA Electrical Engineer Eileen Nakamura explains that these somewhat uncelebrated components act as a junction, collecting incoming power and distributing it to multiple other elements in the system. They are usually specified in TJCAA's water and wastewater treatment plant designs within switchboards, switchgear, motor control centers (MCCs), and panelboards. The MCC would, for example, have a horizontal main bus that distributes power to each MCC section and a vertical bus in each section that distributes power to the motor controllers and various loads.



Buses are conductive metal, typically tin-plated copper, and might be oriented horizontally or vertically within the electrical equipment enclosure. The technical specifications for a bus typically dictate its material and rating (e.g., "tin-plated copper, 1,200 Amps continuous current-carrying capacity"). Buses are essential to distribute the electrical power within the equipment and to the loads it serves.

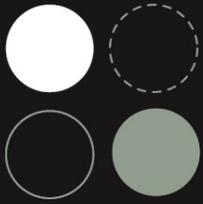
In their various applications, buses range in size quite a bit, from fingertip-size buses for Arduino hobbyists to massive transmission system busbars almost big enough to, say, park a bus under.



Overhead Bus Bar at an Electrical Substation

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Entertainment
Review

Fun Fact

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Entertainment Review - *Dr. Strange*

This winter* one of our TJCAA movie fans screened the latest release from the Marvel Cinematic Universe, *Dr. Strange*. If you're not keeping track, *Dr. Strange* is the fourteenth installment from the Marvel Cinematic Universe, one of the highest grossing film series of all time. *Dr. Strange* opened on November 4, 2016 and is now available via streaming and on DVD (PG-13, 115 minutes).

Its titular character, Dr. Stephen Strange, embodied by Benedict Cumberbatch, begins as a self-centered man of medical science who opens his mind not only to selfless service, but also to astral possibilities, and as he does, the movie carries us into a bending world with stunning depictions of colorful sorcery. The strong cast also includes Chiwetel Ejiofor as Mordo, Benedict Wong as Wong, and Tilda Swinton as The Ancient One.

*He actually saw it on opening weekend this past autumn, and then he watched it once (okay, twice) more at home since then.

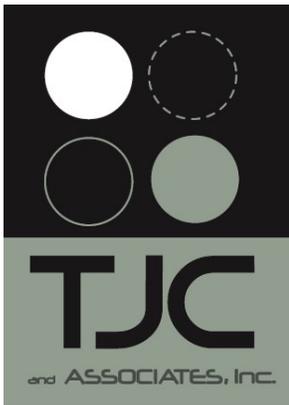
Fun Fact about Our Company

TJCAA is growing! In January we opened our third office in Walnut Creek, CA, and we have relocated our Sacramento corporate headquarters to the Gold River area. Each of our three offices is a fully equipped design office and we can serve our clients from any

of our locations. If you haven't already, please update your contact info for TJC and Associates, Inc. to include these addresses on the following page:

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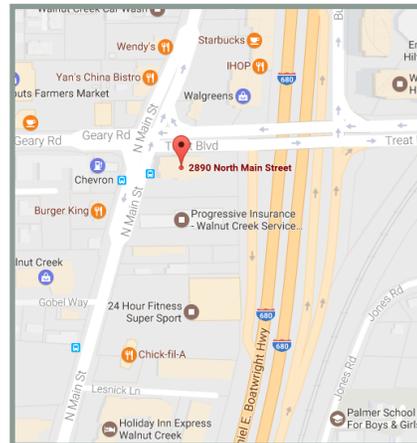
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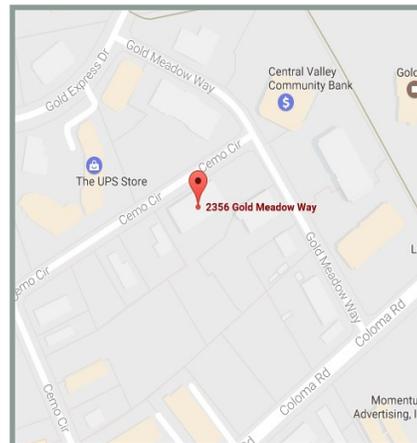
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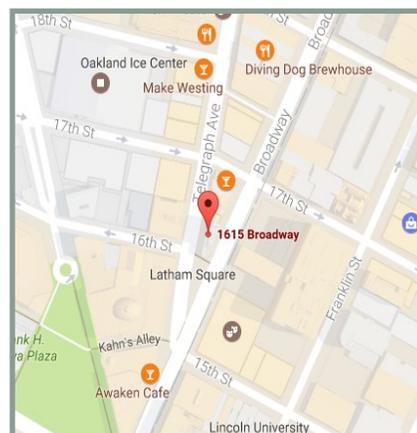
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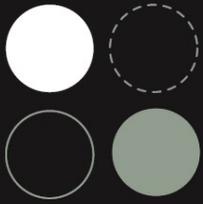
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Dates to Note

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March 20	The Vernal Equinox
March 26	Formula One Season Opener
April 2	Major League Baseball Opening Day
April 3-9	The Masters at Augusta
April 12	Junius Courtney Big Band at Freight and Salvage, 2020 Addison Street Berkeley, CA, 94704 8:00pm (thefreight.org)
April 18	Taxes Due
April 22	Earth Day
May 6	Kentucky Derby
May 19-21	Maker Faire, San Mateo, CA
May 20	Preakness Stakes
May 21	Indy 500 Qualifications, Pole Day
May 25-28	F1 Monaco Grand Prix
May 28	101 st Running of the Indy 500
June 10	Belmont Stakes

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