

AdvanTEC TALK

ADVANTEC NEW PROJECT UPDATE

ADVANTEC has been awarded new contracts with the cities of Escondido, Industry, and Pico Rivera to develop each of their citywide ITS Master Plans. Their ITS Master Plans will provide the agencies with a foundation to migrate to future emerging multi-modal transportation technologies including a Traffic Management Center (TMC), fiber optic communications secured network, open architecture technologies, Connected and Automated Vehicles (CAV), Big Data, Integrated Corridor Management (ICM), Mobility-as-a-Service (MaaS), Mobility on Demand (MOD), and Smart Cities initiatives. Each ITS Master Plan will be prepared using ITS Standards and will be based on FHWA's ITS Architecture and requirements, including Concept-of-Operations and System Engineering Management Plan (SEMP). In addition, each ITS Master Plan will incorporate the vision of their region to prepare the agencies to enhance connectivity, increase safety and sustainability, and improve the quality of life in their communities.

CEO BLOG

Carlos A. Ortiz, PE, TE, PTOE, CEO



There are so many important projects and milestones here at ADVANTEC that we are working on for our clients this year. This newsletter is filled with information on these projects. I would like to highlight one of our ongoing highest technology work efforts for CVAG. We discussed the CVAG Smart Region Program at the ITE International Annual Meeting in New Orleans. Many agencies are requesting presentations from us and want to learn more about the program, and we are happy to be invited to do this to help share our planning, design and now construction efforts. This project is transformative because it is building smart intersections, smart corridors, a Regional Traffic Management Center (RTMC), 8 Traffic Operations Centers (TOCs), Mobility Data/Asset

Management Features, broadband/digital communications, open architecture security/cloud technologies, weather technology and C-V2X technology that enable the CVAG region to become a Smart Region.

An Update on the Project:

Phase I – As part of the on-going construction of Phase I, we are in the System Integration and Training Phase. The ITS System Integrators (ADVANTEC, TKE, and Crosstown) are in the process of beginning the integration of the various software, data management, asset management, security credentials, cyber security, and network elements. This is the most complex part of the project to ensure that the entire system has been tested, commissioning and accepted by CVAG and their stakeholders. The entire team is planning to conduct multiple meetings every week until early 2023.

The technology training sessions began in August. Over 50 agencies' staff have registered to attend over 30 sessions of training of the various hardware and software that have been implemented in the Phase I Project. The Contractor will also be conducting training to learn and

manage the TOCs and the RTMC. The training is for public agencies only and a few of our staff (we will be supporting the initial operations of the RTMC). Caltrans District 8 will be sending staff to participate in the training sessions.

PHASE II – A major accomplishment occurred in early August. The Phase II Project was advertised for construction in the Desert Sun newspaper. CVAG conducted a mandatory pre-bid meeting and opening bids occurred in September. We are in the process of supporting the value analysis of the Bids received. Phase II includes expansion of the Smart Region Program along 18 corridors and integrating Broadband Communications along four major corridors in the Coachella Valley. Phase II construction period is 2 years and ADVANTEC is anticipating to provide Construction Support Services. As part of California's Broadband Communications funding program, CVAG was the only non-Caltrans agency to receive funding to install Broadband Communications along Highway 111. ADVANTEC has already designed the expansion of the Valley's Broadband Communications to an additional 18 corridors. ADVANTEC designed 716 sheets for CVAG's Phase II deployment.

ADVANTEC is very honored to be a part of this program supporting CVAG and their stakeholders.

Congratulations to Nicholas Park, our Third Quarter 2022 Recipient of the ADVANTEC Employee Recognition Award Program

Nick is working with the City of Claremont, as well as other clients, applying his expertise and experience in traffic engineering studies. Nick takes the lead for all analysis, conceptual improvement plans, and report write ups on aggressive schedules. He has a level of commitment and attitude that leads clients to success, investing extra hours to meet the City's deadlines. He also monitors, tracks and manages the budgets throughout his projects to maintain the budgets and scopes. Nick is also working on proposals and training other staff. He has been working late to serve our clients and meet their deadlines, and goes above and beyond to provide projects to our clients on-time and within budget.

The Individual Award Criteria Includes:

- 1. Perform duties above and beyond their level of responsibility**
- 2. Exceptional productivity and high quality work**
- 3. Goal achievement towards tasks budget and schedule**
- 4. Client compliments**
- 5. Taking initiative to help others and promote teamwork**

ADVANTEC is Pleased to Announce the Addition of Two New Team Members to our Company



EDWARD CLAY
ASSISTANT ENGINEER

Edward graduated from Cal Poly Pomona with a Bachelor of Science in Civil Engineering in 2021 and is presently in the Masters program in Transportation Engineering. Since starting



ANGELA WATKINS
INTERN

Angela is an intern who is attending Cal Poly Pomona to earn her Bachelor of Science Degree in Civil Engineering. She has been receiving training on Anaheim TCP's (Traffic

this position at Advantec, Edward has been responsible for assisting with the various projects at the Diamond Bar office. He has been involved in improving intersection designs for Las Tunas, field work for the I-105 express lanes and SR-55 freeway improvements. He has had a chance to review temporary traffic control plans for the City of Anaheim, and streetlight electrical plans for the Mission Village Development in Los Angeles County.

Control Plans) and redlines for Mission Village Development and has been assisting in the SR-55 freeway improvements. Angela is an active member of the American Society of Civil Engineers (ASCE), Women In Engineering (WISE) and Maximizing Engineering Potential (MEP).



ADVANTEC is looking for talent like yours!

ADVANTEC Consulting Engineers is a rapidly growing professional engineering firm specializing in advanced multi-modal transportation technology in planning, design, and operations. We provide our clients a variety of professional services, including, Highway Engineering, Public Works, Intelligent Transportation Systems (ITS), Traffic Engineering, and Transportation Planning. ADVANTEC's multi-disciplined team of talented and innovative professionals includes civil, electrical, and traffic engineers and planners. If you are interested in a new chapter in your career with our growing firm, please apply!

Visit ADVANTEC Careers

Calendar of Transportation Events

Watch for ADVANTEC and our Clients at the Following Transportation Events and Conferences:

***November 13-15, 2022 Focus on The Future Conference**, Uniting Transportation, Building a Path to our Future, Newport Beach Marriot, CA

***December 1, 2022, WTS Orange County Scholarship and Awards Gala**, 5:00 p.m.-8:30 p.m., Richard M. Nixon Library, Yorba Linda, CA

***January 8-12, 2023 Transportation Research Board of the National Academies 102nd Annual Meeting**, Washington, DC

***March 15-16, 2023 ITE Virtual Spring Conference**

In our upcoming issue--New Projects, Employees and Project of the Quarter and Year, as well as Upcoming Events for 2023

Visit our
website

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ADVANTEC's management philosophy is characterized by our motto: "BECAUSE WE CARE!"

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