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|  |  | **Data Scientist and Engineer Experiences**  Wataru Kumagai is an expert for data scientist and engineer with 6 years. He joined Yokogawa Electric Corporation in 2016, serves as R&D for Plant Energy Management System. Since then, he experience in industry plant process, water sewage, power plant, and pulp and paper process with 6 years. Since then, leading Yokogawa’s water business team taking disruptive research actions with the subsidiary Yokogawa Corporation of America and Yokogawa Engineering Asia Pte Ltd in Singapore. Matsui forms finance scheme with Japanese Government, The Ministry of Economy, Trade and Industry to promote binary trade and collaboration between the United States and Japan. The feasibility of deployment Digital Transformation for potable reuse projects across the US is validated by third party including National Water Research Institute, Las Virgenes-Triunfo, Orange County Water District, other utilities, Carollo Engineers, Inc. The study is expanding to the US funding studies below, Matsui assigns now.   * Co-Investigator with the University of Arizona in Indicator viruses to confirm performance of advancing potable reuse for Water Research Foundation (RFP #4955) * Co-Investigator in the Desalination and Water Purification Research Program by The Bureau of Reclamation under the U.S. Department of the Interior (#BOR-DO-20-F014)   While Matsui was with Vice President of METAWATER USA, INC., in charge of R&D department for business development and International Business Division, led incubation phase demonstration below.   * Design microfiltration system for advanced water purification pilot project (2015-16) at Donald C. Tillman Water Reclamation Plant in LA Sanitation. * Joint study Virus attenuation by microfiltration and ultrafiltration for advanced water purification with The University of Arizona (2015-17), served as visiting research fellow in the Water & Energy Sustainable Technology Center. * Optimization of online bromate analyzer (2016-17) with WATERSTART, non-profit organization created by the Nevada Governor’s Office of Economic Development, the Southern Nevada Water Authority.   **Plant Energy Management System Research and Development Experiences**  Designed reverse osmosis (RO) base Seawater Desalination for Saudi Arabia while The Saline Water Conversion Corporation shifted from thermal to RO. Matsui engaged development of pretreatment and RO processes through collaborative demonstration with the Desalination Technology Research Institute (2008-2014).  Designed water treatment facility and implemented over 10 projects in the Philippines, Tanzania, El Salvador and others (1999-2004).  **Education & Licenses**  Kumagai holds a doctor’s degree in Engineering from Tokyo Metropolitan University (2020). |
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