WAYNE WRIGHT, PE

Senior Electrical Engineer

wwright@johnsoneng.com
239.461.2446

Years Experience

37 years

Licensing & Registration

Florida Professional Engineer,
License No. 58220

Education/Training

B.S. Engineering (1982),
Duke University

Wayne has 37 years of experience working as an Electrical, Instrumentation & Controls (EI&C) engineer. His experience includes design and implementation of power, instrumentation, process control, industrial control, systems integration and commissioning, site and process evaluations, SCADA architecture, networking, telemetry, and PLC/HMI/OIT programming. Wayne has provided control panel electrical designs for motor control, instrumentation, low voltage power distribution, lighting, and lightning protection. Wayne has worked on projects with multiple disciplines in project management and project engineering roles managing project scope, schedule and budget from conceptual design through detailed design and construction completion and has provided engineer-of-record and construction observation services.

Relevant Experience

- WWTP Switchgear, MCC & Generator Controls Upgrade, Naples, FL - Our team provided professional engineering services associated with the replacement of the Generator #1 switchgear and the Uniform Bldg. MCC and a generator control system field retrofit.
- WTP Switchgear, MCC & Power Systems Upgrade, Naples, FL - This project for the City of Naples Water Reclamation Facility is for the purpose of providing design services, followed by associated construction services, for the replacement of existing critical infrastructure equipment which has reached the end of its useful life.
- NESA WWTP & Booster Station Electrical Design, Collier County, FL - Collier County plans to build a Wastewater Treatment Plant (WWTP) and Water Treatment Plant (WTP) which will provide treatment for the Northeast Wastewater Service Area (NESA). This NESA Interim WWTP is intended to consist of two independent 750,000 gpd interconnected units for reliability that will have a total capacity of 1.5 million gallons per day (MGD) on a Maximum Monthly Average Daily Flow (MMADF) basis and will utilize onsite rapid infiltration basins (RIBs) for effluent disposal..
- Master Pump Station -104 Optimization, Collier County, FL - Our team provided professional engineering and design services for operational improvements at the Collier County Master Pump Station (MPS) MPS 104.00. The goal of this project was to develop, implement and test modifications to the existing operational control strategy for the pump station to remediate experienced operational difficulties with operation of the MPS.
- SCADA Communications Assessment, Pinellas County, FL - We provided Pinellas County Utilities with a SCADA Communications Assessment. They have standardized on the WONDERWARE SCADA platform.
- SCADA Trunking System Cellular Upgrade, Pinellas County, FL - The Pinellas County SCADA system was designed via a microwave-based analog radio trunking system communicating with several major sites at treatment plants and RTU's at 351 remote lift stations.A Wonderware System Platform Human Machine Interface (HMI) is utilized for control and monitoring. Most of the existing lift station RTUs were obsolete. The planned to convert the ana-log radio trunking system to a digital network. There are very high, increasing, and unpredictable recurring annual usage fees for the microwave trunking system as well as RTU programming in-efficiencies that reduce data quality and overall performance. The planned analog-to-digital radio conversion required a substantial modification to the existing hardware and programming, so was necessary for the COUNTY to upgrade the Lift Station SCADA system.