

NELSON VERGARA

CONTACT INFO.

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Inst. Tech NCCR: 6909965

SKILLS

- Dbase III, Programmer
- Software testing
- System Integration
- AutoCAD Drawing designer, Upgrades
- Yokogawa Graphics, Upgrades
- IDs, Web development
- JavaScript programmer
- Visual Basic designer
- Data Storage Area Network Technologies
- Instrumentation Technician
- Solo Motor Run and testing
- Truck Loading commissioning
- HoloLens 3D to Navisworks interface
- Basic, Network design
- C++ Programmer
- Microsoft Projects
- Data Entry, Project Management
- Servers' diagnostic
- SQL Programmer
- FoxPro, Programmer
- Delta V Graphics, Upgrade
- HTML5, Visual Basic Programmer
- IT Basics Support
- Project Management
- Network component installations
- Microsoft Office Package
- Loop checks and Interlock checks
- Bentley Nevada commissioning
- Instrument and Electrical QA/QC
- NLP Programmer
- Turbo C, Peachtree Programmer
- Primavera P6 and P3 Scheduler
- Program Development and design
- Data Base Development
- Bentley Nevada 3500.
- ROTORK Basic ITQ/IQ2
- DC Power Systems Limited; V.R.L.A. Battery Maintenance.

PROFESSIONAL SUMMARY

Experienced Controls and Commissioning professional with extensive field leadership experience supporting large scale industrial projects from construction through startup. Strong technical background in DCS, SIS, instrumentation, electrical systems, loop checks, SIF testing, I/O verification, system integration, redline development, and commissioning execution.

Highly experienced in complex process facilities including Methanol, Ammonia, LNG, Olefins, Polymers, and petrochemical operations, with a deep understanding of system priorities, operational dependencies, and critical path execution. Skilled at coordinating between engineering, construction, QA/QC, commissioning, and operations to resolve issues, maintain progress, and ensure safe system turnover.

Known for practical field problem solving, strong leadership, detailed execution tracking, and the ability to turn complex project requirements into clear work plans that support safe, efficient, and successful commissioning outcomes.

WORK HISTORY

Control System Specialist

MMR Company (Golden Pass LNG) – Sabine Pass, TX

11/14/2025 to 04/15/2026

- Provided HVAC Control System engineering and commissioning support, ensuring reliable operation of building and process HVAC systems across the facility.
- Programmed and configured Jenesys HVAC controllers using Niagara Framework, including logic development, point configuration, and system integration.
- Developed, reviewed, and implemented control sequences of operation in accordance with project specifications, design intent, and operational requirements.
- Configured and validated alarm setpoints, priorities, and notification logic to ensure system reliability, safety, and effective operator response.
- Executed commissioning activities for HVAC control systems, including point-to-point checks, functional testing, and system performance verification.
- Validated Cause & Effect (C&E) matrices for HVAC control systems, ensuring proper response to abnormal conditions, alarms, and interlocks.
- Performed loop checks and functional testing to verify correct controller logic, sensor inputs, outputs, and control responses.
- Supported startup and turnover activities, ensuring HVAC systems met operational readiness and commissioning acceptance criteria.
- Coordinated with engineering, construction, and operations teams to resolve control system issues, discrepancies, and commissioning punch items.
- Assisted with documentation review and redlining, including control narratives, sequences of operation, and commissioning records.

- Emerson; Field Vue Instruments with Valvelink.

P6 Scheduler & QC Manager

MMR Company (Golden Pass LNG) – Sabine Pass, TX

10/10/2024 to 10/01/2025

- Developed and managed comprehensive electrical and instrumentation planning and scheduling using Primavera P6 software to streamline project execution and prioritize critical systems.
- Designed and implemented advanced scheduling techniques to enable planners to focus on priority systems, projecting weeks of work ahead based on system priorities and constraints.
- Created detailed flowcharts and manpower projections to optimize resource allocation and improve team productivity.
- Coordinated the preparation of work packages, focusing on priority areas to ensure seamless execution and alignment with project timelines.
- Managed the Quality Control (QC) team, overseeing QA/QC processes for work package completion, ensuring adherence to project specifications and industry standards.
- Established and executed tracking and reporting strategies to provide accurate progress updates and insights to stakeholders, enabling data-driven decision-making.
- Collaborated with cross-functional teams to address project challenges, drive continuous improvement, and ensure project deliverables were met efficiently.

FCO Manager (Safety Functionality Check-out Manager)

MMR Company (ConocoPhillips Alpine Alaska CD1 Project and CD4) – Alpine, AK

05/14/2024 to 09/13/2024

- Coordinated with the construction department to transition from an old control system to a new DeltaV control system.
- Verified all electrical drawings associated with the project, redlined inconsistencies, and communicated issues to engineering teams.
- Developed work execution plans, schedules, and tracking indexes to ensure detailed monitoring and tracking of all project activities.
- Inspected new installations and executed functionality checks on all instruments to confirm correct I/O assignments.
- Coordinated daily activities with ConocoPhillips management and provided regular updates on work progress using Primavera P6 Schedule.
- Provided expert guidance on the DeltaV control system, ensuring a smooth and efficient cutover process.

Control System Technician and SIF Testing Manager

MMR Company (Chevron Phillips Plant 8 Turnaround) – Pasadena, TX

03/20/2024 to 05/10/2024

- Led the technician department in all SIF (Safety Instrumented Function) testing activities and loop checks.
- Evaluated the installation of new control valves and assessed existing valve components to determine if upgrades were necessary for improved performance.
- Updated daily work activities to ensure accurate tracking and progress reporting.

- Bypassed necessary interlocks and simulated critical and non-critical parameters to execute safety interlocks.
- Collaborated with operations to simulate and evaluate new and existing control loops, ensuring optimal functionality and safety.
- Provided start-up support during critical phases, assisting operations in aligning all field instruments for service activation.
- Troubleshoot and evaluated instruments that were not reading properly during start-up, ensuring accurate and reliable performance.

Commissioning specialist and SIF Manager 09/10/2023 to 12/20/2023
MMR Group (IFCO Ammonia Fertilizer Plant) - Wever, AI

- Leading Safety Interlocks Functionalities checks for Ammonia, Nitric acid and Urea process plant.
- Review and verify to ensure that the design and implementation of safety systems are in accordance with the safety requirements and standards, such as IEC 61511.
- Coordinate with various teams and departments for the testing of SIFs. This includes scheduling the tests, ensuring the availability of necessary resources, and communicating with operations and controls system engineers.
- Oversee and directly perform tests on SIFs to ensure they function correctly. This often includes simulating failure conditions and verifying that the safety instrumented systems respond as expected across to Yokogawa DCS/SIS System and record all values in the SIF packages.
- Ensure that all tests, results, and any anomalies are well-documented.
- Ensure that the test is carried out as per the defined procedure, that safety protocols are followed, and that any deviations or failures are promptly addressed and documented.
- Provide technical support to operators and plan ahead the needs for the start up.

I/E QC and I/C Sr. Lead Technician – 10/10/2022 to Continue remote assistance and support. MMR Group (Ineos Styrolution Project)
Seabrook, TX.

- Complete QC Outstanding activities for Fire and Gas system before pre-commissioning.
- Review and inspect vendors PLC terminations from PLC to DeltaV control cabinets.
- Red-line vendor PLC's drawings for implementation.
- Final QC packages turn over for fire and gas to client representatives.
- Lead a small group of senior's technicians for pre-commissioning activities on rubber and dryer's unit.
- Troubleshoot several controls valves and repair fail actions.
- Review P&IDS and implement few items.
- Assist Loop checks on Vendor equipment's to PLC's.
- Commissioning Fire and Gas system and calibrate around 35 gas detectors.
- Troubleshoot several instruments failures.
- Pre-commissioning and commissioning 53 VFD's and motors.
- Implemented and repaired several motor VFD's during Commissioning.
- Assist and Commissioning multiple Vendor package units.
- Leading a group of 7 electrical journeyman's for VFD's modifications and implementation by installing sine wave filters and swapping existing VFD's by different manufacture.
- Configure 53 new VFD's parameters and tested motor solo runs.
- Troubleshoot few gas detectors and re-calibration.
- Pre- startup operation support on some of the areas.

- Commissioning and place in server few gas chromatography's.

Client I/E QA and Turnaround Controls Representative 08/2021 to 10/06/2022. MMR Group (Chevron/Phillips CatAct Pasadena Plant, Plant 6 Turnaround) – Pasadena, TX

- Leading I/E QA and I/E Lead Technicians for new Catalyst Activator Project.
- P&IDs, Loop Drawings and single wire diagrams modifications and improvements before constructions executions.
- Review Power single lines and red lines.
- I/E schedule reviews and Implementation.
- Modifications on Instrumentation installations details due to new type of instruments and process.
- Coordinate daily activities with Austin contractors in the field for Schedule updates.
- Vendor coordination with Puffer and Hargrove for drawings modification or implementations.
- Participate on multiple FAT's for Delta v system and BMS systems.
- Provide Chevron Phillips management daily schedule updates and targets.
- Supervise, monitor and record the execution of the activities carried-out by both Sub-Contractors and Vendors as per the develop procedures, taking into consideration all the all the Site required HSE rules and regulations.
- Field support on changes on control system and BMS (set ranges modifications and recalibration)
- Field daily assessment before QA/QC sells for any improvements or modifications.
- Development Software Construction tracker, utilizing C++ and SQL programming skills to track each individual I/E construction activities for accurate construction reports and be able to update schedule.
- Coordinate and assist pre-commissioning activities
- Loop checks around 400 single loops
- Commissioning control system and execute interlock checks
- Operation support and system upgrades modifications.
- Troubleshooting vendor PLC's
- Control Valves assessments, repairs and upgrades
- Field operator support during start-up
- Control assistant support.

Plant 6 Debottleneck project March 2022

- Instrument Lead Technician for loop check and SIF check for plant 6 while continue supporting Carat project.
- Loop check around 250 new I/O's
- Troubleshooted multiple instruments due to re-terminations
- Control system board support to receive multiple loop checks activities.
- Control system simple modifications and corrections.
- SIF execution for multiple areas.
- Start up support.

Continue Supporting CatAct new Project.

- Resolve and assist construction issues.
- Prepare Loop check procedures and SIF procedures before Pre-commissioning activities starts.
- Prepare Loop folders for Pre-Loop checks and Loop Checks.
- Signed off final construction turn overs.
- Modify and Upgrade system software tracker upon client request for record Field punch items/Soft punch items and to track Pre-Loop check and loop checks to be reported by system and sub-system.

- Loop checks process for final SIF test.
- Transformer and motor testing.

**Instrumentation and Controls Lead Technician, 06/2021 to 08/2021
MMR Group (IFCO Ammonia Fertilizer Plant) - Wever, AI**

- Leading Safety Interlocks Functionalities checks.
- Pre-Loop check and set ranges modification priory to SIF test.
- Troubleshooting Field Instrumentation during modifications.
- Implementation of Turnaround Schedule in Primavera P6
- Control System support during SIF Testing (Yokogawa System).
- Start-Up support in ammonia and Urea Area.

Control System Specialist and Instrument Lead Technician, 01/2021 to 06/2021 MMR Group (Chevron/Phillips Pasadena Plant) - Pasadena, TX

- Plant 8 Turnaround Loop checks and troubleshooting.
- Plant 8 Lead technician for SIF execution.
- Plant 8 Startup technical support.

Maintenance/Computer Tech Support client representative.

- Instrument Mechanical maintenance support for entire complex.
- Control System Technician (Delta V, Triconex, PLC control system troubleshooting, bypass and Maintenance)
- Operation control system support in multiple small projects.
- Control system modifications and implementations (Delta V, Triconex, Old PLC Ladder logic and Schneider modicon PLC's).

Pre-Commissioning and Commissioning Specialist, 06/2020 to 01/2021 MMR Group (INEOS Ethylene Cracking Furnace) Liverpool, TX

- Instrument Lead Technician and coordinator.
- Coordinate all loop checks activities.
- Troubleshooting multiple loops, Red-lines Loop drawings and P&IDs.
- Implementation and preparation of SIF test procedure.
- Interlocks Checks for vendor equipment.
- Multiple Gas Chromatography, calibrate and place in service for multiple plant phases.
- SIF testing and preparation for startup.
- Operation support during startup.
- Final turn over and plant I/E dep, training for Gas Chromatography calibrations.

Instrument Field Engineering and Technician support, 07/2019 to 05/2020 MMR Group (Debottlenecking INEOS Project) - Liverpool, TX

- Instrument Field Engineering.
- Loop Drawings reviews and Modifications.
- P&IDs reviews and Red-Lines.
- Basic Primavera Schedule for Construction pre-activities.
- Material and cost estimator of Instrumentation area.
- HoloLens Software implementation for pre-constructions activities due to multiple projects in the same work area.
- Instrumentation work progressing tracker.
- Pre-Commissioning work packages for client.
- Resolved Engineering issues during construction activities.
- Provide TechnipFMC engineering support to completed outstanding Loops dwg's and good I/O count due to multiple projects in work area.

- System Development to execute system turn over without utilizing hard paper work due to the start of pandemic and digitalize all loop check forms and turn over forms for client.

IE Engineer and Commissioning Specialist, 02/2019 to 06/2019
Wagner IE / BioMCN Methanol Plant - Delfzijl Netherlands., Groningen

- Control System FATs.
- Pre-Commissioning and Commissioning support activities on ongoing project.
- Field support for Instrumentation and controls troubleshooting.
- Interlocks, Complex loop and start up support.
- Pre-designed P&IDs in AutoCAD for a second plant BioMCN.
- Walk-downs instrumentation and process Line for P&IDs implantation.
- Upgrades from Pneumatics to Smart Digital Components.
- Final P&IDs AutoCAD design.

Instrumentation Control Engineer, 02/2019 to 02/2019
Wagner IE US Methanol – West Virginia.

- Onsite Plant Assessment - walk down multiple areas of a plant for Instrumentation on and equipment evaluation for a Methanol Plant.
- Assessment for Valves Modifications and Implementation.
- Project estimation for new control system.
- Feed project reviews.

Instrumentation and Control Engineer, 10/2018 to 01/2019
Wagner IE - US Methanol Project - Calgary Canada, Alberta

- Loop drawings design in AutoCAD.
- P&ID's designed in AutoCAD.
- Participate in IVT's at SPARTAN Controls prior to FATs.
- Control system and Graphics designed in Delta V.
- Graphics implementation in Delta V due to the final HAZOP.
- Red-Line P&IDs for final issue to engineering.
- FAT's DeltaV Cabinets testing (Grounding and Material).
- FAT's Delta V Software testing.
- FAT's Delta V Interlocks testing.
- FAT's Delta V Cost and Effect testing.
- Creating additional Loop Drawings.
- HAZOP Participation for new implementation.
- Final issue for construction P&IDs and Loop Drawings modifications.

Instrumentation and Controls Site Technician, 09/2017 to 10/2018
Wagner IE / Fortigen Fertilizer N-Ren Plant - Geneva, NE

- Coordinate Outstanding Loop checks.
- Commissioning Mass Spec building.
- Re-tube Mass Spec Building.
- New addition designed mass flowmeter and installation.
- Participate in multiple HAZOPs for Pre-Reformer.
- Develop new Loop Drawings in AutoCAD for new equipment.
- Loop checks point to point around 1,300 single loops.
- Interlock checks, Complex loops and Star-Up Support.
- Repair few Control valves in Hight pressure ammonia skid 4800psi.
- Commissioning Ammonia truck loading.
- Final turn over packages by loop numbers (Loop folders).
- Design new SIS Delta V charm Cabinet.
- Troubleshooting during the startup multiple instruments.

- System control DeltaV Graphics review upgrades and modifications.
- Pre-Commissioning activities, Instrument calibration checks.
- Coordinate Outstanding construction work.
- Plant performance control system tuning.
- Plant I/E personal development training for final roll over.

Instrumentation and Control Engineer, 05/2017 to 09/2017
Wagner IE / Gorham Group N-Ren II Plant - Geneva, NE

- Instrument List development.
- Mark up existing P&IDs for Upgrade.
- Instrumentation devices and control valves assessment for repair.
- Data sheets upgrade Multiple Numeric Valves to Smart Digital components.
- On site support I/E Technician for N-REN plant 1 existing project.

IE Commissioning Specialist, 06/2015 to 05/2017
MMR Group Inc. / Iowa Fertilizer Ammonia Plant - Wever, IA

- I/E Plant Client Representative for ORASCOM group.
- Lead Instrumentation and Control Tech./Coordinator
- Red-Line around 5,000 Loop Drawing for the client
- Developer for Pre-Commissioning System in SQL/C++
- Coordinate Re-Programming in Yokogawa System in outstanding areas.
- Multi-troubleshooting PLC's and Boolean logic modifications
- Vendors PLC Pre-Commissioning/Commissioning
- KPI for the entire Project.
- Outstanding Construction coordinator
- Develop and implement preventative and predictive maintenance procedures for critical Electrical Equipment: Motors, Starters, Breakers and Transformers at 480/4160/13800/66000 V level
- Preparing documentation Loop Folder for Loop checks.
- Loop checks point to point around 13,000 single loops
- Troubleshoot, repair and overhaul electrical and pneumatic instrument devices (including valves, actuators, analyzers, transmitters, etc.)
- Interlock Checks.
- SIF Checks and Complex loop.
- Control logic tuning in Yokogawa System.
- Board operator support for OSBL portion.
- Start-Up and Support.
- Plant Performance Technical support.

IE Controls Engineer Support, 03/2014 to 06/2015
MMR Group Inc. / OCI Methanol And Ammonia Plant - Beaumont, TX

- Instrument, Electrical and Control Engineering support.
- Yokogawa Control system (DCS/SIS) Cabinets upgrade.
- Loop Drawing designer in AutoCAD for DCS/SIS signals.
- Updating/Development Instrument Data sheets.
- Multiple Control Valves Shop Coordinator.
- Troubleshoot and repair Three phase motors and switchgear systems at 480, 4160, 13.8kV level
- QA/QC Final sign off
- Pre-Commissioning/Commissioning Instrumentation and control coordinator.
- Client representative during Loop checks and turn over packages.
- Interlock and Complex Loop checks prior to Start-Up.
- Plant Performance support on control logic modifications and upgrades.

Instrumentation Field Engineer, 02/2013 to 03/2014

MMR Group Inc. - Baytown, TX

- Scheduler in Primavera P6 for the entire Instrumentation and Electrical Project.
- Estimator and planner for Instrumentation and Electrical areas.
- Construction Project Coordinator
- Field Engineering support
- Pre-Commissioning Coordinator

Commissioning Specialist, 11/2011 to 11/2012

MMR Group Inc. / Pandora Methanol and Ammonia Project - Beaumont, TX

- Supported pre-commissioning, commissioning, and startup activities for a large-scale Methanol and Ammonia industrial facility, with focus on instrumentation, electrical systems, controls, and system turnover.
- Coordinated commissioning execution activities between construction, engineering, QA/QC, operations, and project management to support safe and efficient system completion.
- Supported Yokogawa **CENTUM DCS** and **ProSafe SIS** upgrade, commissioning, loop validation, interlock testing, and startup troubleshooting.
- Performed and coordinated loop checks, functional checks, interlock verification, control system testing, and final sell-off activities with client and operations representatives.
- Supported commissioning and configuration activities for **Bently Nevada 3500** machinery protection systems.
- Provided technical support in the control system area, including troubleshooting instrumentation, electrical, DCS, SIS, and field device issues during commissioning and startup.
- Coordinated valve shop activities, including tracking, repair coordination, testing status, and cost estimating for multiple control valve and instrument-related repairs.
- Developed and managed an Instrumentation/Electrical tracking database using **Microsoft Access and Visual Basic**, improving visibility of loop check status, QA/QC progress, system turnover, and project completion.
- Supported project progress management by tracking commissioning activities, identifying incomplete work, and providing status reports to management.
- Assisted with Primavera P6 scheduling for electrical and instrumentation work, supporting planning, progress updates, and commissioning priorities.
- Updated and redlined P&IDs, loop drawings, and field documentation using AutoCAD to support accurate commissioning records and turnover packages.
- Supported QA/QC final sign-off, documentation review, punch list resolution, and system completion packages.
- Provided local site IT and database support to improve field execution, document control, and progress reporting.
- Supported plant startup by troubleshooting instrumentation, controls, and system related issues to ensure safe and reliable operation.

EDUCATION

DeltaV Implementation II : Control System Engineer, 2018
Emerson Services and Training - Round Rock, TX

DeltaV Operate Implementation I : Control System Engineer, 2018
Emerson Services and Training - Round Rock, TX

Hands -On Training at Process Analytics and Control Works Training Center 2018

Instrumentation And Electrical Technician : Instrument Technician, 2014
ABC Associated Builders - Beaumont, TX

ANSI SQL Server And Python Web Development. : Programmer, 2017
Microsoft Virtual Academy - Virtual Academy

Control Valve, Valves Specifications, Devices Specifications, Selection Design : Petrochemical, 2017
Spartan Control Services and Training - Burnaby, BC Canada

9000 ProSafe RS Engineering : Control System Engineer, 2016
Yokogawa America - Sugar Land, TX

Centum VP Essentials7420 Centum VP : Control System Engineer, 2016
Yokogawa America - Sugar Land, TX

Project Management and Advance Project Management in Primavera P6 Rel. 7.0 - -12.8 Certification Completed. : 2011
Oracle University - Houston, TX

Engineer Computer Network and System Development : 2010
Westwood College - Houston, TX

Basic Certification on Financial Modeling. : 2006
MTI College - Houston, TX

Bachelor of Science : Physical Mathematics, 2003
CBTis 134 - Chilpancingo Mexico
CBTis 134 Technical School Mexico Basic Education on Computer Tech and Programmer.

Electric Basics and Electrical Distribution Equip : Electrical Technician, 2019
Schneider Electric - Schneider Electric US

NFPA 70 and 79, National Electrical Code and Electrical Standard for Industrial Machinery – Schneider Electric US

Bently Nevada; 3500 Operation and Maintenance Training.

CERTIFICATIONS

- Cisco Certified Network Associate (CCNA)
- ServSafe
- DCS Delta V Operate - Implementation I - 7009
- DCS Delta V Implementation II - 7017
- Primavera Project management P6
- Primavera Project management advance P6
- Java Scrip Platform
- Engineering computer network and system security
- SQL and C++
- Physical/Mathematics - Computer Technician