

Start	End	Client company	Client location	Industry	Process	Employer	Platform	Description
8-1984	5-1986	SD Warren	Skowhegan, Maine	Paper	Paper machine	SD Warren	Sentrol	- Calibration and testing of paper machine sensors. Used statistical analysis of results to determine calibration coefficients. This gave operations personnel a more accurate and timely indication of product quality. - Identified design issues in sensors which prevented calibration to lab test equipment. This avoided wasted efforts in trying to calibrate sensors that could not be calibrate - Development of process graphics for all steam systems in DEC PDP-11 based control system. This was used during operations for an enhanced view of the process, and served as a valuable training aid for operations personnel
8-1987	4-1988	Boise Cascade	Wallula WA	Paper	Bleaching	Honeywell	Honeywell TDC 3000	Bleach plant advanced controls application development and installation
8-1988	4-1989	Simpson Tacoma Kraft	Tacoma WA	Paper	Bleaching	Honeywell	Honeywell TDC 3000	Bleach plant advanced controls application development and installation
12-1988	12-1988	Scott Paper	Mobile AL	Paper	Chemical recovery	Honeywell	Honeywell TDC 3000	Recovery boiler control, database recovery
1-1989	4-1989	Seminole Kraft	Jacksonville FL	Paper	Pulping	Honeywell	Honeywell TDC 3000	Pulp mill blow heat recovery control
6-1989	10-1989	Georgia Pacific	Woodlands, ME	Paper	Bleaching	Honeywell	Honeywell TDC 3000	Bleach Plant Advanced Controls
8-1989	3-1990	Irving Tissue	St. Johns, NB	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1180 Paper Machine Gauging System
10-1989	7-1990	Gaylord Container	Bogalusa, LA	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1180 Paper Machine Gauging System
3-1990	5-1990	Weyerhaeuser Paper	Columbus, MS	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1180 Paper Machine Gauging System
4-1990	4-1990	Scott Paper	Mobile, AL	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1180 Paper Machine Gauging System
6-1990	12-1990	SD Warren	Skowhegan, ME	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1180 and 1190 Paper Machine Gauging Systems
2-1991	3-1991	Boise Cascade	Rumford ME	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Measurax Paper Machine Gauging System on site support
4-1991	9-1991	Georgia Pacific	Brunswick GA	Paper	Pulping	Honeywell	Honeywell TDC 3000	Pulp mill brownstock washing system interlocks
5-1991	6-1991	CCA	Fernandina Beach, FL	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1180 Paper Machine Gauging System
6-1991	8-1991	Kimberly Clark	Nancy France	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1180 Paper Machine Gauging System
10-1991	11-1991	Kimberly Clark	Coleshill, Great Britain	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1180 Paper Machine Gauging System
2-1992	3-1992	Kruger Paper	Bromptonville, Quebec	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1180 Paper Machine Gauging System
5-1992	6-1992	Kopparfurs	Sweden	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1180 Paper Machine Gauging System
11-1992	12-1992	Scott Paper	Chester PA	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1180 and 1190 Paper Machine Gauging Systems
5-1993	6-1993	Riverwood International	Macon, GA	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1190 Paper Machine Gauging System
6-1993	9-1993	Inland Paper	Orange TX	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Installation of MD controls package on 2 paper machines
7-1993	8-1993	SCA	Sundsvall, Sweden	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1180 Paper Machine Gauging System
11-1993	2-1994	Westvaco Paper	Covington, VA	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1190 Paper Machine Gauging System
5-1994	6-1994	Scott Paper	Mexico	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Single Window Communication Link to Accuray 1180 Paper Machine Gauging System
6-1994	8-1994	James River	Naheola AL	Paper	Paper machine	Honeywell	Honeywell TDC 3000	Installation of CD control package on #7 paper machine
5-1997	5-1997	Kimberly Clark	Chester, PA	Paper	Paper machine	Honeywell	Honeywell TDC 3000	PM#18, Paper machine startup, control tuning and system configuration, tuned regulatory loops and aided in the startup of the machine, helped produce the first reel of paper of the re-built machine
6-1997	6-1997	Gaylord Container	Bogalusa, LA	Paper	Chemical recovery	Honeywell	Honeywell TDC 3000	Installed excess oxygen control and interlocks on chemical recovery boiler. #21 recovery boiler, helped install O2 control and safety logic, tuned control to customer's satisfaction, boiler superintendent had not observed such a steady reading before, put specific gravity control online in dissolving tank, was able to level out at the target, major area of concern for the mill
6-1997	6-1997	Jefferson Smurfit	Brewton , AL	Paper	Paper machine	Honeywell	Honeywell TDC 3000	PM#2 MD Control tuning and configuration, improved responsiveness of control and eliminated actuator fighting, brought Production Maximization and Coordinated Speed Change online
1-1998	1-1998	Weyerhaeuser	Prince Albert, Canada	Paper	Pulping	Pavilion Technologies	Pavilion	Weyerhaeuser Prince Albert kamyr digester MPC support
5-1998	5-1998	Mead Container	Mahrt, Alabama	Paper	Utilities	Pavilion Technologies	Pavilion	Installed continuous emissions models for power boilers that passed EPA accuracy tests. Continuous emissions monitoring system for NOx on a natural gas and oil Once Through Steam Generator using neural network software from Pavilion Technologies.

Start	End	Client company	Client location	Industry	Process	Employer	Platform	Description
6-1998	12-2001	Dupont Chemical	Richmond VA	Chemical	Tyvek, Nomex, Kevlar	DPAS	Honeywell TDC 3000/TPS	- Provided onsite support for Honeywell systems in various unit operations at the DuPont chemical facility - Automated peaking test for Tyvek lines 1 and 2 - Automated control of slurry pumps for Tyvek lines 1 and 2 - Nonlinear control of Nomex reactor - Conversion of Honeywell Data Highway database to Honeywell UCN database for Tyvek lines 1 and 2
8-1998	8-1998	MacMillan Bloedel	Henderson, KY	Paper	Utilities	Pavilion Technologies	Pavilion	Installed continuous emissions models for power boilers that passed EPA accuracy tests. Continuous emissions monitoring system for NOx on a natural package boiler, using neural network software from Pavilion Technologies.
8-2000	12-2000	Entegris	Burnet, TX	Chemical	Distillation	DPAS	Rockwell PlantPAX	Sequence and automatic temperature control of 2 distillation units using Rockwell PlantPAX, FactoryTalk ME, E300 relays, Guardmaster safety controller, Chromalox limit controllers, Stratix switch. The programming included function block, ladder logic, structured text, and sequential function chart
8-2001	11-2002	ATMI	Burnet, TX	Chemical	Batch chemical	Advanced System Integration	Rockwell Logix Bizware Batch	Developed and installed Rockwell Batch software application for greenfield ATMI Chemical in Burnet, Texas, project manager for cabinet design and build, instrument bench test and installation, system install and commissioning
1-2003	2-2003	Samsung Semiconductor	Austin TX	Semiconductor	Utilities	DPAS	Honeywell TDC 3000/TPS	On-site and on-call support for Honeywell system in the utilities unit
4-2003	8-2003	Andritz	Muncy, PA	Paper		DPAS		- Assessed advanced control packages for suitability to develop advanced control applications (AspenTech DMCPlus, Honeywell RMPCT, Pavilion Perfecter, GenSym G2/NOL, Invensys Connoisseur, MatLab, Brain Maker) - Developed the technical project execution plan, to be incorporated into the business plan, determining the specific steps and timeline to develop advanced control applications, including estimated costs and pricing of repeatable applications
6-2003	8-2003	Samsung Semiconductor	Austin, TX	Semiconductor	Utilities	Advanced System Integration	Honeywell TDC 3000/TPS	- On-site and on-call support for Honeywell system in the utilities unit, under the contract with system integrator Tegron - Quickly restored entire TDC 3000 system during the site's transient power outage - Identified the humidity control failure due to IO card fault which led to a frozen loop output
6-2003	1-2004	Dupont Chemical	Richmond VA	Chemical	Tyvek	DPAS	Honeywell TDC 3000/TPS	Translated all references in Honeywell graphics, History Module, Application Module, and other applications to maintain functionality after points were moved to UCN devices
4-2004	8-2004	Austin Energy	Austin, TX	Power	Power boiler	Advanced System Integration	Emerson Deltav	- Completed the installation and utilization of Matrikon OPC Data Manager and XL Reporter to generate reports of gas yard data - Published paper with Austin Energy regarding OPC communications for ISA InTech Magazine
5-2004	8-2004	Austin Energy	Austin, TX	Power	Power boiler	DPAS	Emerson Deltav	Installation of OPC network and automated reports, Austin Energy
6-2004	5-2015	Emerson	Austin, TX	Automation		Emerson	Emerson Deltav	- DeltaV advanced control development/testing - Prevented serious operational problems for customers, protected Emerson's reputation through discovery and diagnosis of faults in the DeltaV system along with improving DeltaV by reviewing and recommending new features - As principle engineer responsible for quality of all advanced control products, discovered problems and recommended improvements in MPC/APC and related features introduced into new releases of DeltaV. - Comprehensive experience in the use of many features of DeltaV, including PredictPro, safety instrumented systems (SIS), DeltaV Batch, communication interfaces, and advanced control applications - Developed and configured DeltaV modules, nodes, controllers, and graphics to effectively test realistic plant scenarios - Developed and implemented process simulations in DeltaV to test algorithms and performance of advanced control products (Neural, Fuzzy, Insight, PredictPro, MPC) - Certified communication interfaces between DeltaV and other control systems

Start	End	Client company	Client location	Industry	Process	Employer	Platform	Description
10-2004	3-2005	Kraft Foods	Dallas, TX	Food	Batch	DPAS	Rockwell Logix Bizware Batch	- Under contract with system integrator Tegron to make further modifications to the Rockwell Bizware Batch installation at Kraft Foods following my previous work with Advanced System Integration - Discovered undocumented connectivity between workstation and file system, enabling required changes to be made - Successfully completed modifications without interruptions to the process operations
6-2016	4-2017	International Paper	Savannah GA	Paper	Chemical recovery	Global Process Automation	Honeywell TDC 3000/TPS	Upgrade of kraft pulp mill black liquor evaporators to falling film effects with BPR control, new Honeywell remote IO cabinet, GUS graphics, interlocks, SAMA drawings
7-2017	10-2017	Georgia Pacific	Big Island VA	Paper	Paper machine	Global Process Automation	ABB 800xa Rockwell PlantPAX	Onsite assessment and design of upgrade from vintage Rockwell to Rockwell/ABB 800xa system
8-2017	8-2017	Entergy	Ouchita, AR	Energy	Power boiler	Global Process Automation	Emerson Deltav	Audits of several Entergy sites for NERC CIP v6 compliance
8-2017	8-2017	Entergy	Vicksburg, MS (Baxter Wilson)	Energy	Power boiler	Global Process Automation	Emerson Deltav	Audits of several Entergy sites for NERC CIP v6 compliance
8-2017	8-2017	Entergy	Sterlington, LA	Energy	Power boiler	Global Process Automation	Emerson Deltav	Audits of several Entergy sites for NERC CIP v6 compliance
8-2017	8-2017	Entergy	Perryville, AR	Energy	Power boiler	Global Process Automation	Emerson Deltav	Audits of several Entergy sites for NERC CIP v6 compliance
8-2017	10-2017	Corning	Wilmington NC	Glass	Fiber optic	Global Process Automation	ABB 800xa	Design of ABB MOD300 to 800xa upgrade
11-2017	4-2018	US Bureau of Reclamation	Dolores, CO	Water	Dam	Global Process Automation	Rockwell PlantPAX	US Bureau of Reclamation, Dolores CO (11/17 - 4/18): Project manager for schedule critical project to upgrade Rockwell system prior to spring irrigation season. Customer rated us a perfect 10 on evaluation "GPA provided excellent service on our project that met all technical and performance requirements. We are pleased with GPA's professionalism and can-do attitude". Exceeded profit goal on fixed price project.
2-2018	3-2018	International paper	Rome GA	Paper	Paper machine	Global Process Automation	ABB 800xa Rockwell PlantPAX	Project manager, Onsite startup support for ABB 800xa, Rockwell systems, repulper logic
5-2018	8-2018	PCA,	Wallula WA	Paper	Pulp mill	Global Process Automation	Honeywell Experion	Provided onsite Honeywell support for Experion/TDC systems throughout facility
9-2018	9-2019	International Boundary and Water Commission,	El Paso TX	Water	Waste water	Global Process Automation	Rockwell PlantPAX Ignition	Project manager for SCADA support and upgrades for Nogales AZ and San Ysidro CA facilities. Provided enhancements and emergency calls for Rockwell and Ignition systems. Completed cyber security assessments for federal compliance on critical infrastructure.
10-2018	11-2018	Georgia Pacific	Camas, WA	Paper	Utilities	Global Process Automation	Honeywell TDC 3000/TPS	Configuration of IO in Honeywell Logic Manager
5-2019	3-2020	Plummer Forest Products,	Post Falls ID	Wood	Particle Board	Global Process Automation	Rockwell PlantPAX	Project manager to rebuild 4 antiquated control systems into 1 Rockwell systems in 2.5 months after a fire shut down their production. Extracted all advanced control from Honeywell server to port into Rockwell PlantPAX. Used hybrid agile techniques to accelerate schedule. Facility resumed first quality production ahead of schedule, which preserved their retail contracts. Customer gave excellent review "This project had a tight deadline and GPA engineers were able to adjust and meet it." (https://www.controlglobal.com/industrynews/2020/af-at-home-28/)
1-2021	7-2021	Genera	Vonore, Tennessee	Paper	Pulping	DPAS	Rockwell PlantPAX Seeq	Startup of new pulp mill. Sequences, logic, HMI, control tuning using Rockwell PlantPAX. Automated reports using Seeq. Development of CMMS, MES, and ERP.
6-2021	7-2021	Georgia Pacific	Naheola, Alabama	Paper	Paper machine	DPAS	Honeywell Experion	Commissioning of Honeywell Experion system for Georgia Pacific tissue machine
6-2021	6-2022	B Braun	Daytona, Florida	Pharmaceutical	IV bags	DPAS	Rockwell PlantPAX PharmaSuite FT Batch	Project manager for new production lines at B Braun Medical, using Rockwell PlantPAX, Rockwell PharmaSuite for MES, FactoryTalk Batch, Siemens building automation, FactoryTalk Historian, ThinManager, Kepware OPC
6-2021	2-2022	Georgia Pacific	Muskogee, OK	Paper	Paper machine	DPAS	Emerson DeltaV	Sequence logic, IO configuration, graphics for new converting broke system
7-2021	9-2021	Pacific Gas & Electric	Stockton, California	Gas	Natural gas	DPAS	Emerson Deltav	Commissioning of DeltaV system for PG&E natural gas platform with Fieldbus IO
10-2023	12-2023	ICS/CryoSys	Torreón, Mexico	Gas	LNG	DPAS	Rockwell PlantPAX Ignition HMI	Commissioning of LNG facility
2-2024	6-2024	Plummer Forest Products	Post Falls, ID	Wood	Sander machine	DPAS	Rockwell PlantPAX	Migration of TI 505 PLC and Wonderware to Rockwell PlantPAX. Nearly 1,000 IO and only 2 month window for conversion. Agile development was performed remotely and startup was successful in less than a week. Project was on schedule with quality production being produced at conclusion.

Start	End	Client company	Client location	Industry	Process	Employer	Platform	Description
10-2024	10-2024	PCA	Wallula, WA	Paper	Shive Analyzer	Pulmac	MasterScreen	Service plus replacement of entire acrylic housing
10-2024	10-2024	Westrock	Longview, WA	Paper	Shive Analyzer	Pulmac	Shive Analyzer	Service of 2 units
10-2024	10-2024	Georgia Pacific	Toledo, OR	Paper	Shive Analyzer	Pulmac	Shive Analyzer	Service
11-2024	11-2024	Cascade Pacific Pulp	Halsey, OR	Paper	Sheet Former, Z-Span	Pulmac	Sheet Former, Z-Span	Commission new sheet former, certify 2 Z-Span testers
11-2024	11-2024	International Paper	Columbus, MS	Paper	Shive Analyzer	Pulmac	MasterScreen	Service, replace feed tank
11-2024	11-2024	Georgia Pacific	Green Bay, WI	Paper	Shive Analyzer	Pulmac	MasterScreen	Service of 2 units
11-2024	11-2024	PCA	Tomahawk, WI	Paper	Shive Analyzer	Pulmac	MasterScreen	Service of 2 units
11-2024	11-2024	Resolute (Fibrex)	Menominee, WI	Paper	Shive Analyzer	Pulmac	MasterScreen	Service of 2 units
11-2024	11-2024	Valmet	Bedford, NH	Paper	Shive Analyzer	Pulmac	Shive Analyzer	Service
11-2024	11-2024	Kimberly Clark	Neenah, WI	Paper	Shive Analyzer	Pulmac	Shive Analyzer	Service of 2 units
11-2024	11-2024	International Paper	Mansfield, LA	Paper	Shive Analyzer	Pulmac	MasterScreen	Service, rebuilt, new float switch
11-2024	11-2024	PCA	DeRidder, LA	Paper	Shive Analyzer	Pulmac	MasterScreen	Service
11-2024	11-2024	International Paper	Bogalusa, LA	Paper	Shive Analyzer	Pulmac	MasterScreen	Service
11-2024	11-2024	ND Paper	Rumford, ME	Paper	Shive Analyzer	Pulmac	Shive Analyzer	Service
4-2025	6-2025	Plummer Forest Products	Post Falls, ID	Wood	Boiler conversion	DPAS	Rockwell PlantPAX	Conversion of boiler controls from SMAR controllers to ControlLogix, tuning of loops and 1 week commissioning and startup, results showed greatly improved performance
5-2025	5-2025	PCA	Counce, TN	Paper	Shive Analyzer	DPAS	Shive Analyzer	Remote diagnosis and fix of unit that was not discharging
9-2025	12-2025	DualCo	Houston, TX	Oil and Gas	Automated lubrication	DPAS	Siemens TIA Portal	DualCo had a trailer system from a prior integrator to lubricate 4 valves and clean them. The system was not working, so DPAS was asked to fix it. DPAS modified the PLC logic and WinCC HMI to provide a working system with enhanced functionality to make usage much easier with automatic calculations of injection amounts and automated reports.
10-2025	10-2025	Resolute (Fibrex)	Menominee, WI	Paper	Shive Analyzer	DPAS	MasterScreen	Service of 2 units
11-2025	11-2025	Clearwater Paper	McGehee, AR	Paper	Shive Analyzer	DPAS	MasterScreen	Service. The client said "This company did an amazing job on communicating and servicing our equipment, very knowledge on the task at hand."
11-2025	11-2025	West Fraser	Quesnel, BC	Paper	Shive Analyzer	DPAS	Shive Analyzer	The unit was failing to discharge, perpetually running. DPAS diagnosed the problem in 1 day onsite and fixed the problem. The original supplier serviced the unit but will no longer service these older units, and they offered many suggestions to fix the problem but none of them worked. The facility faced the possibility of having to buy a new unit, which is significant expense and a long lead time. In one day onsite DPAS found a problem and provided a fix, and the problem has not been seen since.
11-2025	12-2025	Ideal Products	Pasadena, TX	Insulation	Machine diagnostics	DPAS	Rockwell SLC 500	The facility had 2 machines controlled by SLC 500 and PanelView. One machine was fine, but the other had precision problems when cutting material. DPAS was able to connect to the PLCs to compare logic and help diagnose differences. The results were given to the client to help them decide next steps
1-2026	2-2026	DualCo	Houston, TX	Oil and Gas	Automated lubrication	DPAS	Rockwell Micro820 Indusoft Web Studio	DualCo had a mobile cabinet from a prior integrator that automatically lubricates valves consisting of Allen Bradley Micro820 with Connected Components and Indusoft v8.1. The Indusoft application was moved to a new laptop but it did not work. DPAS was asked to fix it. DPAS identified a PLC driver problem, a missing database, a corrupted display, and an incorrect configuration of the wifi adapter. DPAS fixed the problems and fully tested to yield a working system
2-2026	2-2026	International Paper	Riverdale, AL	Paper	Shive Analyzer	DPAS	Shive Analyzer	Annual service
3-2026	4-2026	ICS/CryoSys	Abeakuta, Nigeria	Gas	Liquified Natural Gas	DPAS	Rockwell/Ignition	Commissioning, startup, instrumentation tests, loop tests, communication diagnostics
6-2026	6-2026	Westrock	Longview WA	Paper	Shive Analyzer	DPAS	MasterScreen	Service of 2 units, replace discharge valve
6-2026	7-2026	City of Richland Springs, TX	Richland Springs, TX	Water	Water	DPAS	Schneider/WonderWare	Cyber security audit