

Company Introduction/ Overview





51 Employees

Professional Engineers

Engineers/Designers

Project Managers

Construction Mgrs.

I&E Technicians

Technical Sales

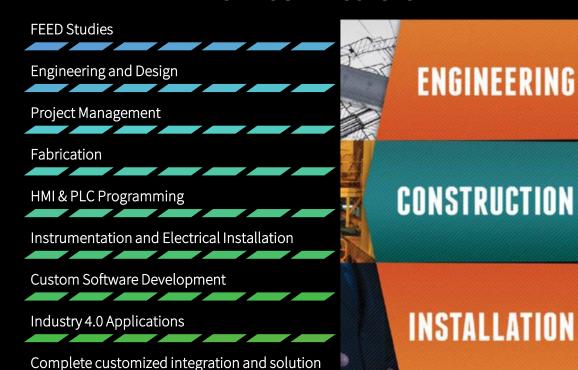
Locations

South Louisiana - Lafayette Central Colorado - Denver South Texas - Houston

Established 2008



braeden offers total package solutions LET US TAKE YOU FROM CONCEPT TO COMPLETION ON YOUR PROJECTS





Safety

- ISNetworld
- OSHA 30
- DISA
- IADC Rigpass (Safe Gulf)
- BOSIET (includes HUET and EBS)
- COMPEX (Inspection and Service of Equipment in Hazardous Areas)
- OGUK Physicals for North Sea
- Vantage Cards for North Sea
- Singaporean Ministry of Manpower (MOM) Approval
- Vaccinations for Travel in Various Countries





Regulatory Compliance, Certification & Approvals

- NEC/NFPA/AEx
- CE (European Conformity)
- ATEX (Explosive Atmospheres)
- IEC / IECEx (International Electrotechnical Commission Explosive)
- DNV (Det Norske Veritas and Germanischer Lloyd)
- API (American Petroleum Institute)
- ABS (American Bureau of Shipping)
- SIL (Safety Integrity Level) IEC 61511, 61508 / PFx (Performance Levels) ISO/IEC 13849-1
- UL508A Quality Approval UL Industrial Control Panels for Ordinary (NITW) and Hazardous (NRBX/NNNY) Locations

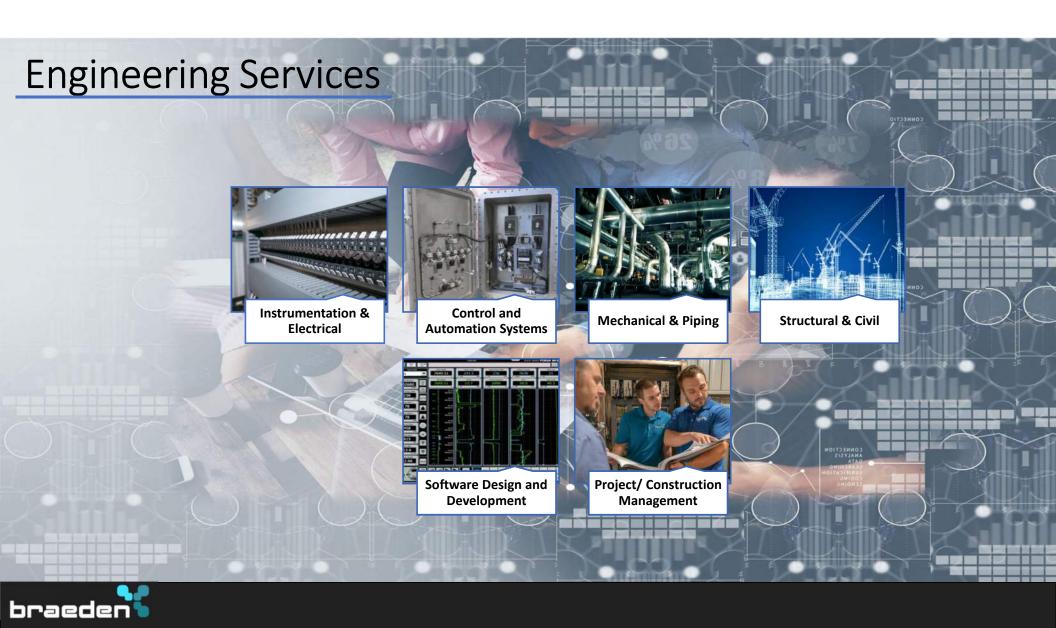














Manufacturing Capabilities

Control Panels •Custom Design - One-Offs •Repeat Builds - Assembly Line MCCs Switchgear Small Skid Assemblies 5-10 tons Over 18,000 SF Combined Shop Space **Overhead Gantry Capability** QAN/ QAR •IECEx/ ATEX Certified Assemblies •Unit Verification or Type Certifications UL NITW NRBX NNNY Onsite Engineering/ Drafting



Automation

Siemens

TIA Portal, S7 Series, WinCC, PCS 7

Rockwell

ControlLogix, SLC, MicroLogix, FactoryTalk View

Schneider

Quantum, Unity, Momentum, Compact

Other

GE, Mitsubishi, B&R, Horner, SCADApack, Red Lion, Unitronics, Pro-face

Hazloc Related

BARTEC, R. STAHL, Crouse-Hinds, Appleton, Meltric, Amphenol, Turck

SCADA

Ignition, Intouch & ArchestrA, Intellution

Honeywell

PlantCruise

Database

SQL, MySQL, iHistorian, InSQL, RsSQL, Big Data Platforms

Data Logging & Report Generation

PDF, Excel, Access, XML

Remote Monitoring

Web, GPRS

Software Development

Visual Studio, Java, C#, C++, ASP

Tools and Platforms





Engineering

P&IDs

AutoCAD, CADworx P&ID

3D Modeling

AutoCAD, CADworx, Inventor, Solidworks, Creo

Piping Isometrics

PDMS, ISOGEN

Structural Design & Detail Drawings

STAAD.Pro, AutoCAD

Electrical Drawings

AutoCAD, AutoCAD Electrical

Hazardous Area Design

IEC 60079, NEC, NFPA



Current Products / Development





BOP/ DIVERTER CONTROL UNITS



HIGH PRESSURE TESTING / CONTROL UNITS



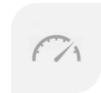
VISION AND INSPECTION SYSTEMS



SAFETY SHUTDOWN SYSTEMS



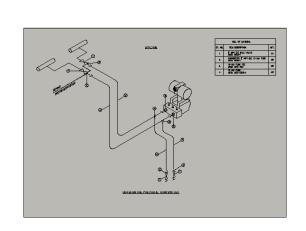
DIGITAL CHART RECORDER

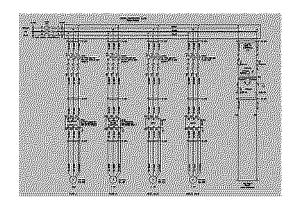


DIGITAL HYDRAULIC GAUGES









Instrumentation & Electrical

Electrical







Single Line Diagrams



Plant Lighting Distribution



Earthing Design & Layouts



Cable & Cable Tray Sizing / Routing

Instrumentation



Instrument Datasheets



Hook-up/ Installation Drawings



Alarm & Interlock Table



Cause and Effect



Alarm Management



Cable & Junction Box Schedule



Cable & Cable Tray Sizing / Routing

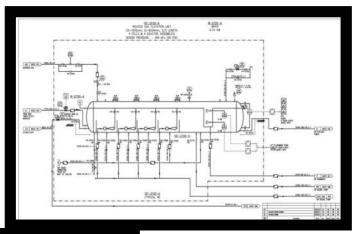


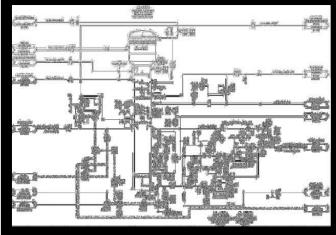
P&IDs

Petrochemical, Refinery & Offshore

Database Configuration Development of P&IDs using CADworx P&ID Revisions based on Mark-ups by client as per walkthrough

PFDs based on P&IDs





Waste Water Treatment

PFDs from client's sketches

Development of P&IDs using AutoCAD

Revisions based on Mark-ups

As-built drawings



Controls and Automation



PLC / SCADA / HMI Programming:

PLC Programming using Ladder Logic, Function Blocks, Structured Text

Graphics design for various SCADA and HMI platforms

Alarm Management, Historian Database, MES and Custom Reports



Control Panel Design and Engineering:

Control Panel / Marshalling Cabinet Design as per UL 508 Panel Wiring / Loop Wiring /

Interconnection Drawings
Preparation of Submittals, O&M
Manuals



Installation & Start-up Assistance



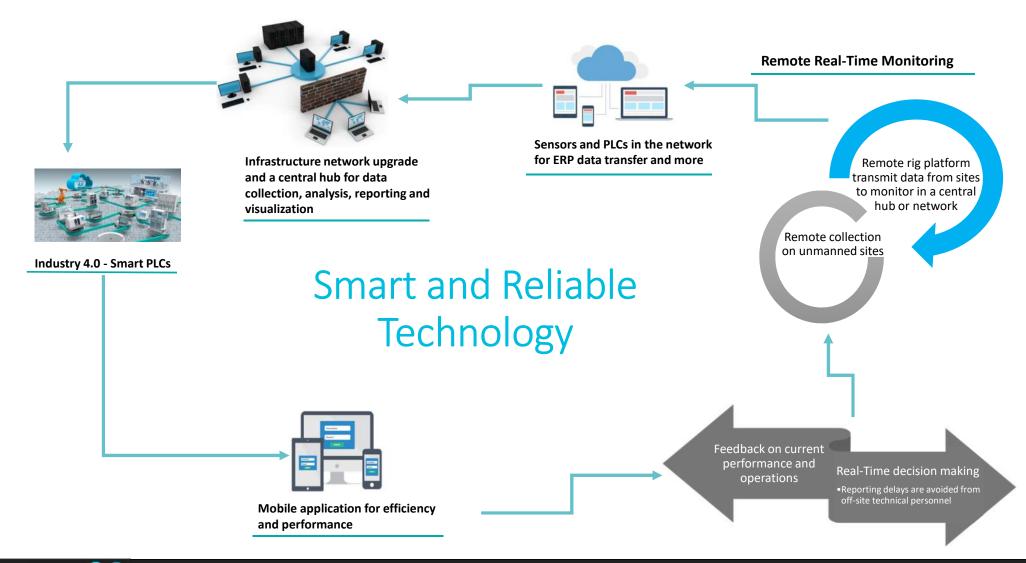
Manufacturing Execution Systems



Custom Software Development









Oil & Gas/ Maritime

BOP and Diverter Control Systems

Drilling Control Systems

Subsea Control Systems

Pipeline Monitoring and Control Systems

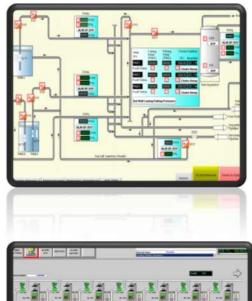
Refinery Monitoring and Control Systems

Production Control Systems

Vessel Management System

ESD Systems

Tank Monitoring





Hazardous Area Compliance

PLC / HMI Programming

Custom Report Generation

Panel Wiring Drawings

Loop Drawings

PDF Submittals and Reports

FAT & Start-up Support

Commissioning

Trouble Shooting and Support

Training



Industrial/Manufacturing

Plant Monitoring and Control Systems

Product Line Control Systems

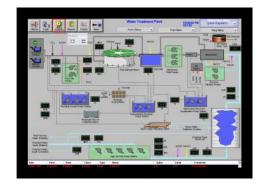
Power Management System

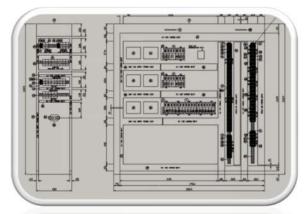
Bulk Handling Systems

Batch Processing

Safety and Alarm System

Testing Systems





PLC / SCADA Programming

SCADA Alarm Configuration

Custom Report Generation

Panel Layouts

Wiring Schematics

Interconnection Drawings

Conduit Schedule

FAT & Start-up Support

Hazardous Area Compliance

Commissioning





Increased Quality & Efficiency
While Reducing Costs



Reduced accident risks for personnel



Better decisionmaking reduces risks of improper machine usage and downtime



Efficient maintenance reduces costs and risk of unplanned downtime



Improved approach to machine operations, increases uptime and product output



Reduced manual labor by using automation or analytics



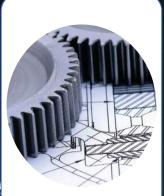
Availability and hardware reduction of data management in the cloud reduces costs



SIEMENS

Siemens Integrator

- •Experience with older electronic equipment
- Support and resources
- Preferred pricing



Provide all levels of engineering, design and services

- •Flexibility and agility to utilize the best solution
- •Customized package solution to meet client's needs



Globally experienced designers, engineers and field technicians

- •Fast response time
- Efficient mobilization and international travel where restrictions apply



Variety of skill sets including:

- •Safety systems and other SIS (Safety Instrumented Systems)
- Hazardous Areas
- Vision Systems
- •Instrumentation and controls
- Equipment Manufacturing
- •Field service and support
- Regulatory or Standards Compliance - local or international
- Professional Engineering Firm and Electrical Contractor



Servicing clients around the world

- •Established track record with public companies around the world
- •Adaptability for changing customer requirements
- •Coverage within multiple markets and industrial sectors



Finding cost effective, reliable and efficient solutions

- Competitive rates
- Effectively reduce costs through efficient personnel management, resource allocation, and legacy systems

Why braeden?



Thank You

