

**Consulting & Planning**

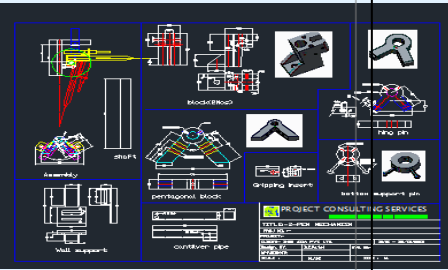
Our professionals listen to your concerns, understand your business and explore all options to tailor a solution that will work for you now and in the future.

**Engineering & Design**

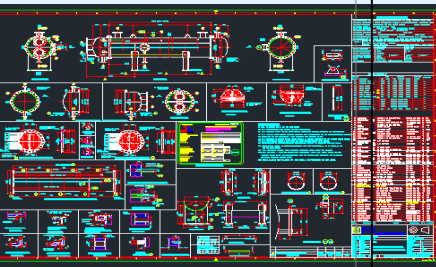
Engineering and design is the foundation of what we do. From static equipment, plants to piping, our experienced professionals have the engineering and design skill sets you need for complete project success.

**EPC Services**

EPC stands for Engineering, Procurement, and Construction. We provide FEED or Front End Engineering services for oil and gas, storage terminals, chemical, manufacturing and electronics industries.



PCS's Mechanical Product Design services range from concept design to detail engineering, analysis and prototyping using industry's best practices. As a complete engineering services partner, we endow our clients with outstanding results. We leverage decades of expertise in CAD, CAM and CAE, along with very strong domain knowledge in various industry verticals and manufacturing processes.

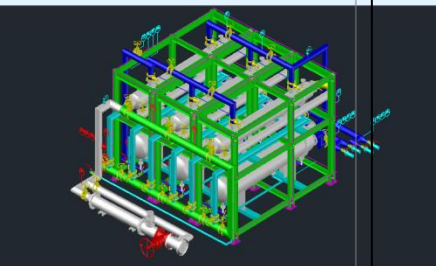


PCS's concept design services combined with engineering expertise allow us to generate design solutions that are innovative and have fast turnaround development schedules. Our artistically adept product design engineers, supported by the state-of-the-art infrastructure, deliver world-class product conceptualization services to a customer base that look forward to innovative designs developed by us.

Project Consulting Services enables customers to design, simulate, analyze and virtually prototype their products, thereby reducing the cost of engineering and optimizing the design cycle time. PCS has the ability to validate and enhance the robustness and performance of components and assemblies, using FEA and CFD.

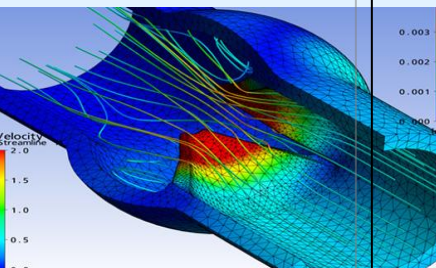
## Finite Element Analysis (FEA)

PCS's FEA experts are skilled in both static and dynamic structural analysis. Our team has worked on a number of projects where they had the task of ensuring that the finished product is fit for its purpose and able to stand up to the rigors of intended use. The FEA analysis is done for stress analysis, durability analysis, fatigue analysis, vibration analysis, modal analysis and design optimization.



## Computational Fluid Dynamics (CFD)

The PCS Analysis team uses Computational Fluid Dynamics (CFD) tools to analyze and solve issues relating to fluid flow. The CFD analysis process involves simulation of the interaction of liquids/gases with the boundary conditions, to identify and rectify potential problems



Project Consulting Services provides detail engineering services, conforming to global standards such as ISO, ASME and DIN, while considering production requirements and customers' production facilities. Our 2D to 3D conversions can transform your 2D images to accurate 3D models, providing easy visualization and helping in faster project completion.

The mechanical design engineering services for process plants include Mechanical/ Thermal Design & Analysis for Pressure Vessels and Heat exchanger, Storage Tanks & Vessels, Package Units as per ASME, TEMA, API, NFPA, OSHAS etc. Preparation of Equipment and Package Specifications with Fabrication Drawings/Datasheets for Heat Exchangers, Cooling Towers, Pumps, Compressors, Conveyors etc.



Project Consulting Services delivers quality technical documentation solutions to organizations worldwide. Our team of highly efficient technical writers has expertise in creating a wide range of documents for various domains.

# Plant Design Service

Project Consulting Services presents comprehensive Plant Design Engineering Services that include design, analysis and procurement solutions.

Our clients spread across various industry verticals associate with us primarily for the width of our Plant Design Engineering services. Our successful track record in offshore project engineering and project management gives clients the required confidence, that they are making a right strategic decision by engaging with us. We, at PCS have a cross-functional team, thus, customers benefit from the team's capability to optimize plant designs for cost effectiveness, reliability, operability and maintainability.

Our expertise lies across multiple engineering functions such as Process, Piping, Mechanical, Civil, Structural, Procurement, Electrical and Instrumentation Engineering. Over the years, PCS has set up offshore teams for several clients, ranging from multibillion dollar enterprises to SME companies.

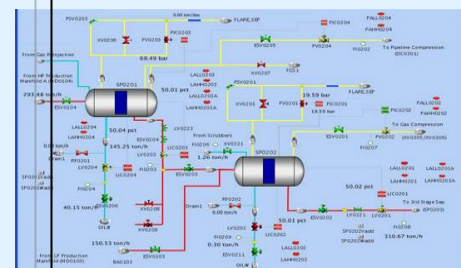
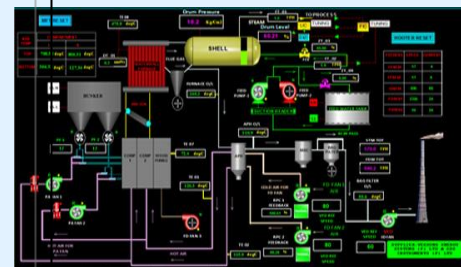
PCS's Piping Engineering team has expertise in designing piping layout for small and medium, as well as large facilities. The team at PCS has provided simple 2D piping designs to complex 3D piping designs for process industries such as oil & gas, chemical, water treatment and pharmaceuticals. Our piping engineers are well experienced in development of piping and equipment layouts, integrating the P & ID and managing the equipment's functional and safety requirements efficiently. The team also carries out handling studies for installation and maintenance.

Project Consulting provides reliable civil and structural design services by engaging skilled engineers with strong domain and functional expertise

Our team evaluates, selects and applies standard engineering methods, techniques, procedures and criteria, while also using independent judgement in making adaptations and modifications. Structural analysis and design are carried out applying site specific wind and seismic data as per codes and standards. Our services includes Design and Detailed Engineering, structural analysis, 3D modelling, Foundation Loading Diagrams, Steel Structural General Arrangement Drawings, Steel Structural detailing, Civil / Structural Material Take Off, Structural Fabrication Drawings, Equipment Support Structure Design, Walkway, Ladder and Platform Design.

PCS's electrical engineering services include, Preparation of Data Sheets and Specifications, Cable Tray Sizing and Generation of Cable Schedule, 3D Modeling of Raceways, Lighting Fixtures, Electrical GA Drawings, Wiring Diagrams and Wiring List, Wire Harness Design, Hazardous Area Classification Drawings, Bill of Materials Preparation, PLC Programming.

PCS's procurement engineers have extensive industry experience and knowledge to provide a turnkey solution to your industry problems. PCS has a cross functional procurement engineering team that supports customers in purchase of engineered commodities and package units for Process Plants from the global market. The team has extensive understanding of the global supply base and procurement best practices, apart from good fundamental technical knowledge in various engineering disciplines.

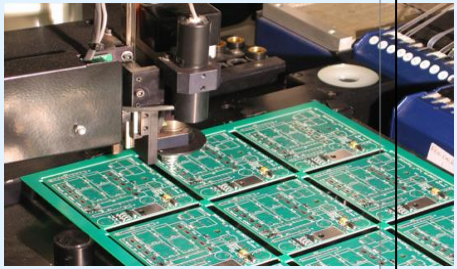




PCS provides a range of custom electronic design services, including circuit board design, FPGA design, PCB layout and embedded software development. Electronic Product Design System development has become a very crucial process, which needs to be considered for the long term roadmap of a product as well as the dynamic market. Whether the need is to create a new product or extend an existing product line with a new functionality, our team of designers work closely with you, right from Concept Development, through Design & Development, Testing and Deployment. With over various successful design projects delivered, our industry experience in electronic product design is extensive.



PCS understand the changing customer needs and are obstinate to develop and deliver innovative and future-enabled hardware products. Our comprehensive hardware development services provide optimized solutions to the customers' increasing demands for improved functionality, reduced size and lower prices. we provide end-to-end Electronic Product Development solutions ranging from simple to complex designs based on MCU, Systems-on-Chip (SoC), FPGA/Digital Signal Processing (DSP), Firmware development and mixed signal capabilities, among many others.



Our hardware development services includes System Architecture, Circuit Design, PCB Layout / Design, Integration of IP Cores, Reference Designs, Verification and Testing, Technical Documentation Support.

With a highly experienced team and access to most of the leading PCB Design and Schematic Capture tools in the market like OrCAD, Cadence Allegro, Mentor PADS and Eagle, PCS is able to handle boards of various complexities, ranging from multi-layer high speed designs to simple 2 layer boards. Our team also has in-depth knowledge of PCB and electronics manufacturing processes, enabling them to keep DFM and DFT considerations in mind while taking up new designs.



PCS's PCB Design services includes, PCB Layout (Library development, Component Placement, Routing, PCB Value Engineering, PCB Sustainance Engineering, Design Migration from one EDA platform to another, Conversion of boards from through hole to SMD, CAM Support, CAD Virtual Librarian Services.

PCS's FPGA Design Services includes, Planning, Specification and Device Selection, Core and IP Strategy, Design, Coding and Verification (VHDL, Verilog, System, Place-and-Route and Timing Optimization, FPGA-Based System Board Design and Debug Capability, Place-and-Route and Timing Optimization, Concept Validation and FPGA to ASIC Migration, Board Support Package (BSP) for different platforms.



PCS's embedded software development services includes, Embedded Software Development, Device Driver Development (Linux and Embedded Windows), Firmware Development, Re-engineering Services.

# Environmental Compliance

PCS is a Leading in engineering and environmental compliance services with a global customer base. Established in 2009, with an expert project management team, PCS offered efficient engineering design services at the launch. But with the market evolution, we forayed into the field of environmental regulations in 2011 and have become the leaders in offering compliance services. Our compliance services in the area of RoHS, REACH and Conflict Minerals have enabled over 35 global corporations to fulfil their compliance requirements within stipulated timelines and with efficient cost optimization.

PCS has been consistently providing Compliance support across the supply chain for OEMs, EMS providers, component manufacturers and distributors. We have earned the repute and experience by delivering compliance data requirements across a diverse set of industries such as Electronics, Electrical and Automotive companies.

Key concerns on RoHS Compliance Services, which PCS addresses, are : Generating and collating data is expensive and time consuming, frequently involving numerous elements within the supply chain, Country-based versions of RoHS require different strategies to become compliant, Material declaration formats and details differ from one supplier to another, Ongoing changes to the regulations and related exemptions. Steep learning curve due to the complexities of interpreting the legislation and its impact on the producer, Difficulty in identifying replacement materials that comply with the legislation

REACH (Registration, Evaluation and Authorization of Chemicals) is the EU regulatory framework for managing chemical substances in Europe. PCS's REACH consulting services enable clients to reduce the costs of achieving compliance across geographies and integrate efficiently with any compliance management system.

Our Environmental Compliance Solutions enable clients to effortlessly manage Regulatory Compliance by helping them comply with various regulations across the world. We reduce our clients' burden of having to deal with huge challenges due to information flow gap between suppliers and buyers, disparate and inconsistent data declaration formats available with each one in the Supply Chain and ongoing changes in existing regulations

PCS is one of the leading company to offer services that will help you comply with conflict minerals regulation including, Supplier Training, Developing Compliance Road Maps, Consulting and Gap Analysis, Collection of Required data and/or Declarations from Suppliers, Ongoing Maintenance of Supplier Declarations.

PCS's compliance consulting services help organizations create, develop and maintain a strong subculture of compliance and business integrity to enable peak performance





Our Bill of Materials cost reduction service uses a multi-staged process that is defined based on the level of flexibility each customer might be willing and able to implement. Our approach is to do an in-depth analysis of the Bills of Materials to identify cost reduction options, including: Generating savings from purchase consolidation, Identifying lower cost alternates, Using Low Cost Country (LCC) sourcing, Analyzing current buying prices to spot abnormal procurement prices.

Project Consulting Services offers an array of Component Engineering Services across industries such as Hi-tech Electronics, Industrial Automation, Telecom and Medical.

Our Component Engineering Services are an excellent proposition for those looking to reduce procurement costs, optimize the supply chain and streamline business practices. The engineering team at Pcs is committed to deliver: Dramatic time reduction in design cycle, Faster time to market, Reduced operating costs, Efficient Supply Chain management.



PCS's Data Transformation Services enable Electronics manufacturing companies to efficiently manage their component databases residing in PLM, PDM and ERP systems.

Our services enable customers to : Create and update electronic component databases with detailed part parameters, compliance information, electro-mechanical parameters, packaging information, and other custom fields, Dramatically improve ROI on enterprise software systems, Identify high risk components based on lifecycle status, Plan for component obsolescence, Improve management of in-bound supply chain, Prevent sourcing delays caused by incorrect part data, Identify buying patterns across locations, Reduce procurement costs.



PCS's obsolescence management services provide a reliable early warning system, alerting you about parts or processes which may require replacement. Our obsolescence management services include: Component Event Monitoring Services, Part Obsolescence Management, Component Cross Reference

Our obsolescence management services enable customers to: Evaluate product life cycle at the design stage itself, Identify high risk components in active products, Deliver early warnings and enable obsolescence planning, Define last time buy strategies, Minimize risk of obsolescence by identifying second sources



## **Oil and Gas industry**

Pcs supports oil and gas clients in a variety of areas including process engineering, piping layout, pipe stress analysis, mechanical design, civil and structural engineering, electrical & instrumentation engineering as well as procurement engineering.

Apart from core engineering, Pcs also provides support for creating As-Built drawings, in cases where there is a delta between the engineering documentation on hand and the actual facility. There are also engineering support services on offer from Pcs, such as 2D to 3D conversions, CAD migrations and generation of fabrication drawings

## **Automotive industry**

Automotive components, being a long life-cycle product, requires a multi-year life cycle management program for which it is critical to develop and maintain an efficient after-market supply system. The industry also faces the challenge of managing several years of historic data on each critical product and component to support customers throughout the product lifecycle and meet its legal and environmental regulations. Pcs's Enterprise Content Management services manage product data, inventory data, CAD data, after-market data and compliance data (REACH, GADSL) for the Automotive industry.

We facilitate automotive component manufacturers to save precious time, resources, and money by integrating their purchase database across locations and getting it in synchronization with accepted industry standards to improve internal content, manage data efficiently and streamline operations

## **Heavy Machinery industry**

Pcs has an experienced team that caters to the Heavy Machinery industry, providing Mechanical Engineering and Design services to manufacturers of Heavy Equipment. The Pcs team has very good understanding of engineering design for manufacturers of various equipment, such as: Construction Equipment, Farm Equipment, Excavators, Mining, tractors & Trucks, Loaders, Material Handlers, Heavy Hydraulics

## **Hi-tech Electronics industry**

The Hi-tech Electronics industry is characterized by fast evolving products and technologies. Companies across the Hi-Tech spectrum, right from Semiconductor Manufacturers and Contract Manufacturers to OEMs, are constantly under pressure to innovate and adapt to technology changes to deliver high quality products, at optimum prices. Our customized services for OEMs, ODMs, Contract manufacturers, Component Manufacturers and Distributors enable Clients to improve supply chain efficiencies, engineering speeds and manufacturing efficiencies

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