





Strategic
Insourcing of
scientists &
engineers

>2.000 Employeneurs in Europe (since 2000)

>200 in Italy

>75% MSc.

>15% PhD.



Rapporti

Oualità & mercati

Ricavi moltiplicati, boom di assunti

con sede legale in Italia e cresciuta

prevalentemente in modo organi

re aziende con to dell'occupa

ille aziende can

ampioni è stata scita media an tasso annuo di

Cagr (fatturato

Il tasso medio

entrare nella

ro registrato è i sono stati for-

efficialmente da ezione o da un

ialle aziende sontrollati dall'I-

ergenze, l'Istitu-

600 imprese trainano lo sviluppo

Criteri di selezione rigorosi, oggettivi e scientifici, per individuare quelli che

l'Istituto tedesco qualità e finanza definisce "I campioni della crescita"

fatturato aggregato di 14,7

in crescita del 50% rispet- LE IMPRESE

to al 2017, quasi 30mila posti di lavo-ro creati, in media più di 38 per duelle della long list da cui e partita la ricerca

SAVE THE DATE

miliardi di euro nel 2020,

Employeneurship Model Stampa & TV





Arriva l'azienda senza capo: tutti manager di se stessi I casi all'estero e ora anche in Italia. L'impostazione? Squadre autonome, paritarie e responsabilizzate

Nessun capo. Nessun sotto- molto diverse tra loro, ma che servizi di consulenza tecnolo-

re; dalla britannica Matt Black produzione di interfacce uo- 2016.

posto. Nessun ordine dall'al-

Corriere della Sera Martedi 6 Febbraio 2018

denominatore: sono imposta-Cazienda senza (o quasi) ma- te su team autonomi, paritari buoni risultati). Una caratterizorg, che invece si occupa di Research Group, le aziende che seguono il principio della self-governance sono più che

L'Italia non sta a guardare e aereonautica e areospaziale anche da noi c'è già chi per-alla francese Favi, una fonde corre questa strada. Per esem-responsabilità è condivisa: data sulla piramide. «C'è mol-indetern sparati e dalle dimensioni | nazionale olandese che offre | proprio profit & loss' sottoli- | spiega Stefano Petti, partner | di se stessi

hanno un minimo comune gica: nel nostro Paese ha un organico di 16 persone, tutti ingegneri, tutti assunti a temnager esiste già. All'estero i e responsabilizzati (e con po indeterminato. E tutti manager di se stessi: la società li (unione tra employee e entreun imprenditore completa-

Di certo il tempo della geliforniana Morning Star, nel | stica che, a quanto pare, si sta | definisce «employeneurs» | cosa sta cambiando. Non a ca- | olandese che so, secondo un'indagine comun mix tra un dipendente e consulenza e sviluppo orga- tecnologica ne Systems, specializzata nella | raddoppiate tra il 2012 e il | prie decisioni con accesso a | nager e impiegati) di Paesi ditutte le informazioni, conti versi, il nostro compreso, me- tutti ingegneri, responsabilità è condivisa: data sulla piramide. «Cè mol- indeterminato "Ognuno è responsabile del to interesse su questo tema» Etutti managar

come eli altri.

nea il ceo Antonio Abadessa che, come tiene a precisare,

della società, che negli scorsi giorni ha lanciato proprio un nodello organizzativo (già «in funzione» sui suoi 30 colaboratori in Italia) senza su rvisori e senza manager. S chiama Aeouacy. «Supportiano le aziende che voglione are una transizione dalla struttura gerarchica a una organizzata su network di team utonomi e coordinati tra lo ro — spiega Petti. — E' un assaggio che, dal nostro unto di vista, favorisce l'in novazione, la collaborazione e

ECONOMIA | 33

Iolanda Barera

01:03:32:02





LA FORZA DI HOLACRACY

La governance che favorisce proattività, responsabilità ed execution

MODELLI ORGANIZZATIVI/2. Dalla gerarchia all'auto-organizzazione: le sperimentazioni in corso

Nuove catene del valore

Dal modello Aequacy di Asterys all'esempio della start-up italiana della società di servizi di ingegneria olandese Tmc, sino ai "team autonomous" per l'innovazione di Sap. Tutti passi verso una profonda trasformazione

> Qualche caso nel mondo, simile o assimilabile al modello Aequacy, esiste già, come ampiamente descritto su "L'Impre a" (v. l'olandese Buurtzorg o la francese Favi e ancora la C&S Wholesale Grocers americana, con 14mila dipendenti, che ha ridotto i costi del 60% rispetto ai competitor). In Italia, un esempio di struttura piatta è la filiale della società di servizi di ngegneria olandese Tmc, organizzata seondo il modello dei team autonomi, con 1.100 dipendenti suddivisi in 12 società per tipologie di servizi, assolutamente ccessibili anche per carriera. In Italia la

organizzazioni tradizionali vanno approvate dal cano e spesso creano malumore è un falso problema, perché quando le scelte individuali impattano sulla resa del gruppo e quindi anche sulla retribuzione del singolo (rischio di lasciare scoperto un ufficio), ognuno si responsabilizza e cerca modi collaborativi per gestire le ferie con soddisfazione per tutti. Lo stesso atteggia mento riguarderà la gestione dei rimborsi spese, perché i costi impatteranno sui compensi stessi dei singoli. Alla base del nostro modello organizzativo c'è infatti

esempio, la gestione delle ferie, che nelle

la massima trasparenza su come incida il contributo individuale sulla media dei start-up guidata da Antonio Abadessa

sky him. This was a spain.



CEO e Chairman TMC

Laureato in Ingegneria OptoElettronica, ha lavorato nel settore delle Telecomunicazioni per Telettra

alla startup di Altran in Italia di cui diviene COO nel 2011, occupandosi negli anni di Sviluppo Business,

nel gennaio 2016 la Start-up italiana del



Nel 1997 scopre il mondo dei servizi di consulenza

Dopo una parentesi nel settore dello Staff Leasina. attualmente CEO e Chairman di TMC



AZIENDA SENZA CAPO LE TELECAMERE DI SKY TG24 FRA I DIPENDENTI DI TIMO THE RECLUSA L'ACCUSA DI CINICIDIO PER OSEGNALE MILANO, DONNA DI 20 ANNI UCC

- Individual profit sharing e permanent

Martedì 23 gennaio 2018



con più velocità che cambiano. In falsi problemi. Ad

PROPIE DEVIS

I CENTO VOLTI

DEL TALENTO

EMPLOYENEURS PARTY

MARTEDÌ 13 LUGLIO 2021 - ORE 19.00 OLD FASHION MILANO - Palazzo dell'Arte, Viale Luigi Camoens, Milano

In fase di accredito sarà richiesta la liberatoria per la registrazione. l'utilizzo e la pubblicazione di contenuti Jauc



TMC Italy is unique



Campioni Della Crescita



Certificazione 9100



LA REPUBBLICA MILANO & ROMA



EMPLOYENEURSHIP

A perfect match of stability and adventure. A combination of security of employment and entrepreneurship. Employeneurship has been received enthusiastically in several countries around the world. The model is based on five principles:



BUSINESS CELLS

Based on their field of technological expertise, they keep each other focused and up to date.





YOUNIVERSITY

Freedom to decide their own career path, but also give them proper guidance along the way.



THE ENTREPRENEURIAL LAB

A place where revolutionary ideas are born. The superlative of Employeneurship.



INDIVIDUAL PROFIT SHARING

Share of the profits they help generate. Fully transparent and fairly rewarded.



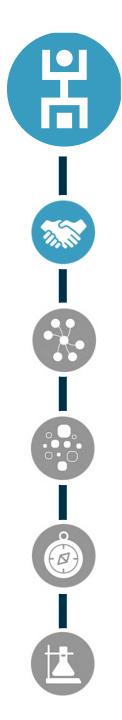
A LONG-TERM WORKING RELATIONSHIP

The security of a contract and dependable income.

LONG-TERM EMPLOYMENT

The best of both worlds: combining a secure income with the benefits of entrepreneurship

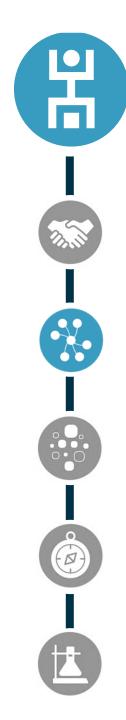
- All employeneurs join TMC with the security of a long-term contract and a stable source of income
- Employeneurs get the opportunity to work for a broad diversity of high-tech companies which offer a variety of projects and intellectual challenge
- If the employeneur is open to positions abroad, TMC also offers such positions and helps out with all necessary arrangements.



PROFIT SHARING & FULL TRANSPARANCY

Stimulate employee engagement and entrepreneurship

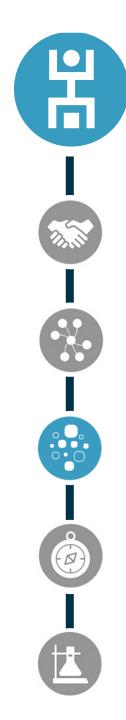
- Individual performance-based profit sharing, directly linked to assignments in addition to fixed salary
- A personalized HR-policy based on your preferences. E.g. holiday pay, extra leave days and supplementary pension payments.
- Full transparency on personal revenue and cost structure to provide full insight into their contribution to profitability



SPECIALIZED EXPERTISE CELLS

Highly educated, niche talent and deep technological expertise

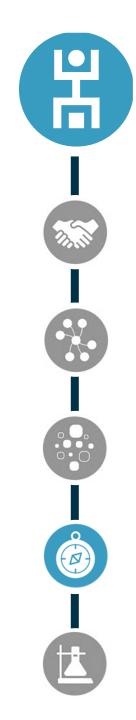
- Expertise cells focus on specific areas of expertise, driving thought leadership and stimulating knowledge sharing
- Autonomous expertise cells drive the business; they are the link between customers and tech talents
- Within the cells there is a vibrant community around technology and innovation with like-minded professionals who are involved through (quarterly) meeting and pizza/impact sessions



YOUNIVERSITY

Training & coaching

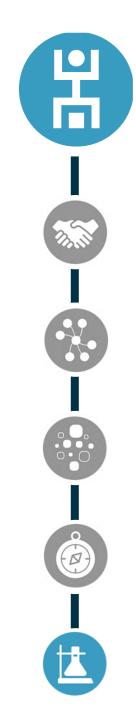
- External professional coach: coaching for personal development and guidance in career
- Personal budget for coaching and training
- Mentoring by senior colleagues
- TMC Compass: Initial personal assessment which is used as basis for employeneur's coaching and development
- Bespoke training program: onboarding, study budget and a wide variety of training sessions in-house and externally



ENTREPRENEURIAL LAB

Stimulate innovation and entrepreneurship

- Unlock out-of-the-box thinking and innovative ideas as well as entrepreneurial skills
- Room to play in a workshop, financially and even in time if a project has enough potential
- Multidisciplinary teams team work makes the dream work
- Experience entrepreneurship next to the security of a job
- Lab projects in some occasions even lead to a start-up



'I'm convinced that at TMC I can find the perfect environment for both professional and personal development.'







'A human-based organization with interesting and challenging projects, a pleasant family-like company culture and opportunities for self-development through training and coaching.'



INDUSTRIES

WE KNOW THE NEED OF COMPANIES THAT WANT TO STAY AHEAD

We create the great conditions for tech talents so they can add value to ambitious and innovative companies all over the world. To realize your ambitions, access to knowledge and expertise is essential for continuity and innovation strength. We meet this need by providing the tech talent you need, whenever you need it.

But our employeneurs offer more. Because of their entrepreneurial spirit they see across borders and provide creative solutions to your challenges.

Aeronautics

Agri, Food & Packaging

Automotive

Chemical & Process industry

Construction & Infrastructure

Energy & Renewables

High-tech systems & Machinery

Insurance & Financial services

Life science & Health care

Maritime & Offshore

Rail & Transportation

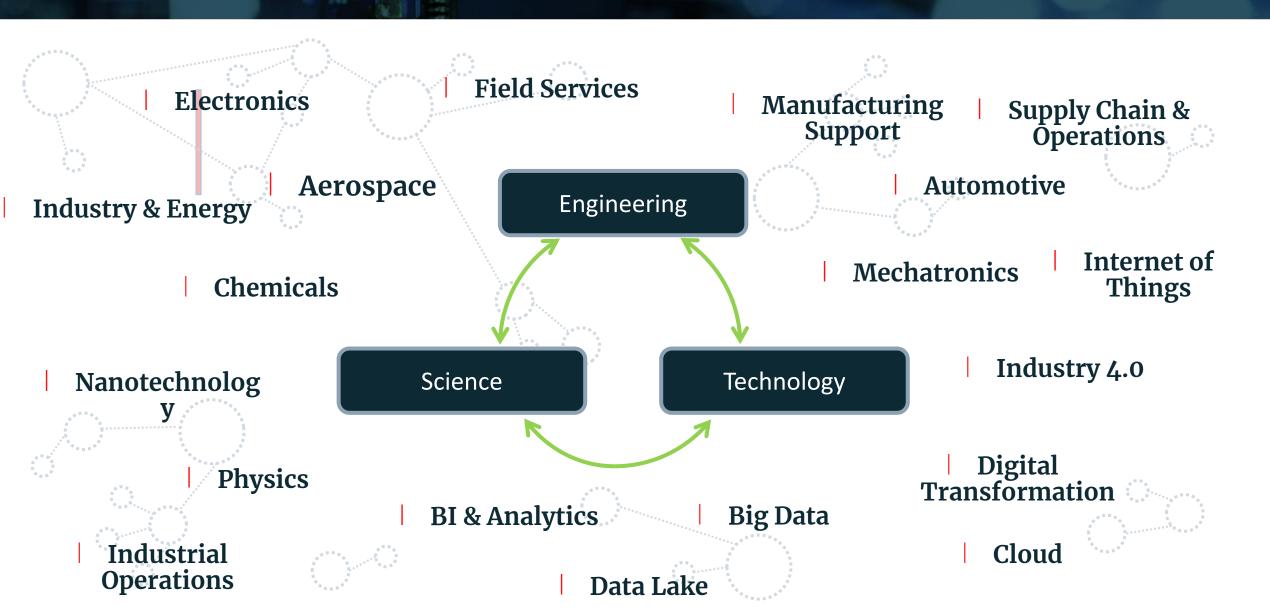
Space & Defence

Telecommunication





Main Areas of Expertise





Management Consulting

- Program and Project Management
 - Monitoring of Project advancement
 - Time and Cost planning
 - Production LOB
 - WBS definition and monitoring
- Risk Management
- ► Cost Controlling VALCOM ©
- Activity and subcontractors management in the design, industrialization and production cycle
- Assessment, definition and implementation of process improvement plans
- OPM3 © (Organizational Project Management) standard application
- Supply Change Management







PROCUREMENT	Supplier Quality / Industrialization	CRISIS MANAGEMENT
 Management SC non conformity due to missing parts 	• supplier quality on entire PLM	Temporary management on supplier production plant
 Management of supplier goods/items deliverable accordingly to Production plan 	Non conformity management (PDCA, 8D)	Recovery / corrective action on processes (quality / procurement)
 Definition and support activity in storehouse / handling and layout 	 Continous improvement (6 Sigma, SPC, DOE, FMEA, etc) 	Lean manufacturing approach
Orders management	 Management tools for improving supplier KPI (JQS, QAF, APQP, etc) 	
Sub - supplier management	Retrofit management of supplier on trainmaker site/deposit	



System Engineering

SYSTEM SPECIFICATION

- ► Functional specification
- ► Technical specification
- ► Interface specification
- Requirement Management

SYSTEM ARCHITECTURE

- Architecture design
- Functional design
- Technical design
- Interface design
- Performance analysis

IV&V

- System Integration
- Multi-system integration
- Requirements verification/validation
- Environmental qualification
- Certification/Homologation
- Standards application

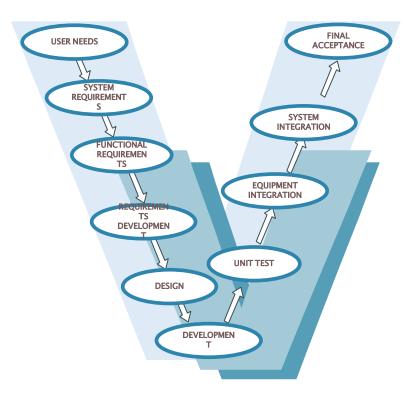
MODELIZATION (MBSE)

- Modeling of the specified system behavior (functions and sub-functions) in normal and failure cases
- Modeling of systems and components functions and their relationships to operations
- Modeling activities to support system requirements, design, analysis, verification & validation

PROTOTYPING, PRE-SERIES & INDUSTRIALISATION

- Qualified Supply Chain for EN9100
- Prototype realization, qualification & pre-series







Digital Design

DESIGN

- Complete design from requirement analysis to board integration Design, Verification and Validation process compliant to DO-254 or ECCS-Q60.
- Complete management of the document workflow

DEVELEOPMENT

- ► FPGA Design with experience on all the main Suppliers
- Experience on the Rad Hard Device for Space application
- Complete Mentor tool chain and IDE of the main Supplier
- Firmware solutions in embedded system.
- Wide range of demand from 8 bit microcontroller up to linux and windows device drivers.
- Model based design approach. (Mathworks\Dspace toolchain)
- Complete RTL Design
- Documentation for Design and V&V
- Integration on board

DESIGN ENTRY &

IMPLEMENTATION

> MENTOR GRAPHICS : HDL Designer

> XILINX : ISE

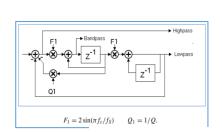
> ALTERA : QUARTUS II > MICROSEMI : LIBERO IDE,

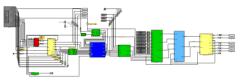
VERIFICATION

& CODE COVERAGE

> MENTOR GRAPHICS : ModelSim











Software Engineering

Embedded

To design/develop full-stack SW app. (from BSP up to HMI), for different HW targets (μ -controller, PC, workstation).

Safety Security

To release high integrity apps and all the documentation according to safety/security standards.





















Model Based

To auto-generate source code from sys/uml models, functional blockset, controls and algorithms.

Digital Signal and Image Processing

To design advanced signal, image processing and machine learning algorithms, to extract quantitative and qualitative information from the real world.

Control Systems

To design and develop advanced algorithms to control physical plants and to identify plant model parameters.





Human Machine Interface

To conceptualize, design new cross-platform and enhanced HMI according to use cases and ergonomic guidelines.

Enterprise Mobile Application

To have the same functionality delivered by customer web portal via mobile device like phone or tablet with secure connection.

Testing and Verification

To verify and test software statically and dynamically versus SWR specification.

Big Data & Analytics

Big Data, Data Governance & DWH, Reporting, Data Visualisation, Analytics & Machine Learning















Hardware Engineering

Analogue Electronics Design

Design HW for different sectors and applications

Power Electronics Design

AC/DC - DC/DC - DC/AC converters design

Test Equipment Design

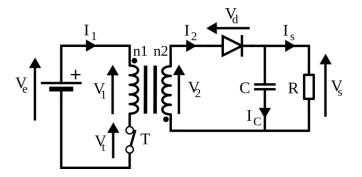
Design Test Jig & Test Equipment for different use



Design

To design respect and according to different requirements:

Electrical
Mechanical
Thermal
Manufacturability
Design Assurance Guidance/
Standard



Testing – Integration – Production

To debug e test and integration in complex system

Harness design & production Validation & CE compliance









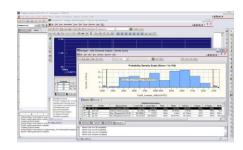
Hardware Engineering - Analysis

Analysis in design phase

To support and validate the design different analysis can be provide:

FMEA FMECA Reliability (Part Count / Part Stress) PSA (Part Stress Analysis) WCA (Worst case Analysis) Radiation Monte Carlo

Process Step	Potential Failure Mode	Potential Failure Effect	stv	Potential Courses	000,	Correct Process Controls	DET	RPN	Action Recommended
What is the step?	In what ways can the step go wrong?	What is the impact on the customer if the feiture mode is not prevented or corrected?	How severe is the effect on the customer?	What causes the step to-go wrong (i.e., how could the failure mode secur)?	How frequently in the course tikely to occur?	What are the exist- ing controls that either present the failure mode from occurring or detect it should it occur?	How probable is detection of the falture mode or its cause?	Risk priority number calculated as SEV s OCC x DET	What are the actions for reducing the occurrence of the cause or for improving its detection? Provide actions on all high RPMs and on severity ratings of 9 or 10.
ATM Pin Authentication	Unauthorized access	Unauthorized cash withdrawal - Very dissatisfied outloner	8	Lost or staten ATM card	3	Block ATM card after three failed authentication attempts	3	72	
	Authentication folium	Annoyed outlomer	3	Network foliure	8	Install load balancer to distribute work- load across network links	6	75	
Dispense Cash	Cash not disbursed	Dissatisfied quatomer	7	ATM out of cash	7	Internal alart of low cash in ATM	4	196	increase minimum cash threshold linit of heavily used ATMs to present out-of-cash instances
	Account debited but no cash distursed	Very dissatisfied outlomer	٠	- Transaction failure - Network issue	3	Install load balancer to distribute work- load across network links	4	95	
	Extra cash dispersed	Bank loses money	٠	Bills stuck to each other Bills stucked incorrectly	2	Verification while loading cash in ATM	3	43	
	,	while a low some in Occurrence Froque frequently scouring Detection Ahilty of exerciting can be ear incomposuous event Kish priority supple Kish priority supple	entigrad to be may of course meets, while a process confit oly detected to er. The overall	e impact exemts, eroe of failure exemt. It is words with low occurrent of to detect the occurrent y the process control is told occur of an event.	s scored on a on are assign on of falure o assigned a to	is 10. A high-some is assi- some of 1 to 10. A high-s of a low some. words. It is accord on a so is some while a high some by reuliphying the some while coeffs with lower R	ore is assigned sie of 1 to 10 A is assigned to Sir sevents, oc	to Solom on	





Schematic entry & PCB Routing Design

To Design electronic circuit, to define routing guidelines.

Signal Integrity Power Integrity EMC

cādence°

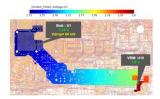


















RAMS & Integrated Logistic Engineering

RELIABILITY, AVAILABILITY, MAINTAINABILITY

Reliability, Maintainability and Testability (RAMT) Analysis, according to the relevant standards (i.e. MIL-HDBK-217F Notice 2, NPRD95/2000, MIL-STD-472);

SAFETY

- Safety Design Process: definition and development of Safety process according to the relevant standard
- Safety Implementation: implementation of all the safety tasks defined by the Safety process:
 - PHA, FHA, IHA, O&SHA
 - FMECA, FTA/CCF, Risk assessment
 - SSA, Hazard Log, Safety Case
 - Support to provide/check evidence for Safety Assessment

INTEGRATED LOGISTIC SUPPORT DIMENSIONING

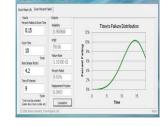
- RCM, LORA, Maintenance Plans, MTA, LSA, LSAR, LCC
- Optimized allocation and dimensioning of Spare parts stocks
- ► MIL-HDBK-217F, MIL-HDBK-338, MIL-STD-721C, S1000D

IN SERVICE SUPPORT

- Obsolescence Planning, analysis and Management
- ► FRACAS









Process Step	Potential Failure Mode	Potential Failure Effect	SEY	Potential Causes	0001	Current Process Controls	DET	RPN"	Action Recommended
What is the step?	In what ways can the step go wrong?	What is the impact on the customer if the failure mode is not prevented or corrected?	How severe is the effect on the customer?	What causes the step to go wrong (i.e., how could the failure mode occur)?	How frequently is the cause likely to occur?	What are the exist- ing controls that either present the failure mode from occurring or detect it should it occur?	How probable is detection of the failure mode or its cause?	Risk priority number calculated as SEV x OCC x DET	What are the actions for reducing the occurrence of the cause or for improving its detection? Provide actions on all high 167%s and on severity ratings of 9 or 10.
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Disperse Cash	Account debited but no cash disbursed	Very dissatisfied oustomer		Transaction failure Network issue	3	Install load balancer to distribute work- load across network links	4	95	
	Extra cash dispensed	Bank loses money		Bills stuck to each other Bills stacked incorrectly	2	Verification while loading cash in ATM	3	48	
	2	while a low score is: Occumence: Froque frequently scourring Detection: Ability of event that can be as	eneigned to low may of occurrent events while as process control sily defected by	impact events, nos of failure event. It words with law occurre i to detect the occurre y the process control is	s scored on a se are assign ce of failure e assigned a lo	s 10. A high score is assi- scale of 1 to 10. A high si- ell a low score. wants: it is scored on a sc w score while a high score.	ore is assigned sile of 1 to 10. A is assigned to	to Solute on	



Mechanical Engineering





SYSTEM ENGINEERING & PROTOTYPING

- Mechanical System Engineering
- Mechanical Design For Electronics
- Prototyping (Design & Manufacturing)
- Integration & Testing
- Composite & Advanced Materials
- Macro & Micro Structure
- ECO-Design

VIRTUAL DESIGN (CAD)

- Preliminary studies
- Digital Mock-up Methodology (Erg. & Env.Requirements, Volumes Interfaces, Weight minimizing, Cost eng ...)
- Style,C,B,A Class Level
- ▶ 3D & 2D CAD Modelling
- SOP & Product Data Management (PDM), included DMU
- Wiring & Harness/Routing

VIRTUAL VALIDATION (CAE)

Structural analysis

- Implicit analysis (static, modal, frequency response, dynamic analysis)
- Explicit analysis (shock, high speed impact, low speed impact)
- Multibody analysis (rigid and flex body mechanism, tribological phenomena)

INDUSTRIALIZATION

Fluid-dynamic analysis

- Steady state and transient analysis
- Thermo-fluid-dynamic analysis
- Chemical reaction analysis
- Change of phase analysis

Acoustic analysis

- Aero-acoustic analysis
- Vibro-acoustic analysis



























Process and Industrial











Expertice On

SAFETY AND RAMS

- Risk & functional safety studies and quantitative risk analysis
- Reliability and Maintenance Engineering

ENTERPRISE PERFORMANCE

Project
Management,
Supply Chain
performance,
operational
efficiency,
continuous
transformation
management

INNOVATION MANAGEMENT

Developing a new strategy based on innovation and increasing economic value creation

INFORMATION SYSTEMS

Custom App.
Development;
Industrial Systems; Gas
logistics;
Petrochemical Labs
management;
Upstream operations
simulation tools

ENGINEERING & CONSTRUCTION

Construction and Commissioning; Civil and oil infrastructure engineering; Mechanical Engineering; Material expertise; Process engineering; I&C; Electrical Design for facilities



Plant Eng

PLANT EXPANSION, IMPROVEMENT, SUSTENANCE & MIGRATION SOLUTIONS

GREENFIELD SOLUTIONS

0&M Feasibility Installation & Commissioning Engineering & Engineering FEED **Energy Saving** Conceptual Layout PFDs - P&I **Procurement Support** Land Survey Analysis Development Hydraulic Calculations Onsite Soil Investigation As-Building/Laser Process Analysis & Commissioning Scanning based Program **Equipment Sizing** Support Market Research Modeling Development Structural Stability Technical Activities Preventive Documentation / Conceptual Study Maintenance Support Simulation Studies O&M Manuals drawings 3 D Modeling **Vendor Management** Material Management Preliminary Design Detail Layout Drawings **Project Management Budget Estimation** Piping Layout & BOM Design Basis/Basic **ERP Implementation** PFDs & Program & Construction Support Innovations Support Data Sheet & Contract/Tender Shutdown Specification Document Asset Data & Sequencing, Plant Management **Document Management** Decommissioning Document Management Support Asset Data Asset Information Civil, Structural & Mechanical & Controls & Electrical **Process Engineering** Architectural Management





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Milano Headquarter

RomaOperative Office

TorinoBranch Office









