ADVANCED MOTORSPORT ENGINEERING MSC

RACE CAR & RACE MOTORBIKES

MONLAU
MOTUL
TECHNICAL SCHOOL


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MONLAU MOTUL TECHNICAL SCHOOL

Iban Ventura
Director General
Grupo Monlau

Jaime Serrano
Director General
Monlau Motul Technical School

Con más de 20 años de experiencia en el ámbito de la docencia técnica de competición automovilística y motociclista, desde Monlau Motul Technical School, en 2010, lanzamos el primer Máster en Ingeniería en Motorsport con un brillante claustro de profesores titulados, especializados en los diferentes módulos del Máster y en activo en las principales competiciones nacionales e internacionales.

Durante estos años hemos conseguido establecer y posicionar dicho Máster como referencia en el mundo de la formación en Motorsport.

Año tras año, hemos ido perfeccionándolo, hasta llevarlo a un punto óptimo para garantizar a nuestros alumnos una **experiencia docente** que les abra todas las puertas en el mundo del Motorsport.

En 2016, como en 2010, lanzamos el primer **Máster en Ingeniería en Motorsport ONLINE**. Con la misma ilusión que el primer día pero con un bagaje más exitoso y afianzado en el mundo académico.

Con el mismo motor, las mismas bases que nos alzan al éxito del Máster presencial, presentamos la versión digital para todos aquellos ingenieros amantes del Motorsport que por diversos motivos no pueden desplazarse a Barcelona para estudiar aquello por lo que sienten pasión: el mundo del motor. Da igual de dónde seas o de dónde vengas porque estudiarás toda la teoría y práctica que nuestros alumnos presenciales disfrutan.

ADVANCED MOTORSPORT ENGINEERING MSC

RACE CAR & RACE MOTORBIKES

OBJETIVOS

El principal objetivo de nuestra escuela, y de este Máster Online en concreto, es dar la oportunidad a jóvenes estudiantes de Ingeniería, ingenieros y/o profesionales con experiencia a formarse como verdaderos especialistas en motocicletas de competición en todas sus especialidades según los métodos, criterios y necesidades de los equipos profesionales y empresas especializadas que actúan en el mundo del Motorsport.

SALIDAS PROFESIONALES

Al finalizar el Máster el alumno tendrá todos los conocimientos para poder elegir su vertiente profesional. Ingeniero de pista, ingeniero de motores o transmisiones, de chasis, de aerodinámica, de telemetría, de simulación, director de una escudería o de una oficina técnica, ingeniero en la industria de la automoción o auxiliar.

SOFTWARE

Como alumno, trabajarás con el software que utilizan las empresas del Motorsport.

PTC®

ANSYS

MathWorks

2D
2d-datarecording.com

AiM

PLAN DE ESTUDIOS

MÓDULOS

*Los textos de los módulos en la plataforma online aparecen en inglés.

ADVANCED MOTORSPORT ENGINEERING MSC RACE CAR & RACE MOTORBIKES

MAIN CONTENTS

The main contents of the onlie motorsport online engineering master have the following structure:

1. MOTORSPORT INTRODUCTION

2. PARTS LIST: RACE CAR AND RACE MOTORBIKES

3. RACING TEAM

M 4. RACE MOTORBIKES DYNAMICS

A 5. RACE CAR DYNAMICS
- GEOMETRY DEFINITION
- TYRES
- LOAD TRANSFER
- DIFFERENTIAL AND SETUP

M 6. RACE MOTORBIKES DATA ACQUISITION

A 7. RACE CAR DATA ACQUISITION

8. PTC CREO

9. RACE BRAKES

10. RACE SHOCK ABSORBERS

11. RACE ENGINE COMMON

M 12. RACE MOTORBIKES ENGINE

A 13. RACE CAR ENGINE

14. RACE FUELS AND LUBRICANTS

15. AERODYNAMICS COMMON

A 16. RACE CAR AERODYNAMICS

17. ANSYS
- WORKBENCH
- SPACE CLAIM AND MESHING
- FLUENT
- MECHANICAL

M 18. POWERTRAIN RACE MOTORBIKES

A 19. POWERTRAIN RACE CAR

20. MATERIALS

21. MATLAB FUNDAMENTALS

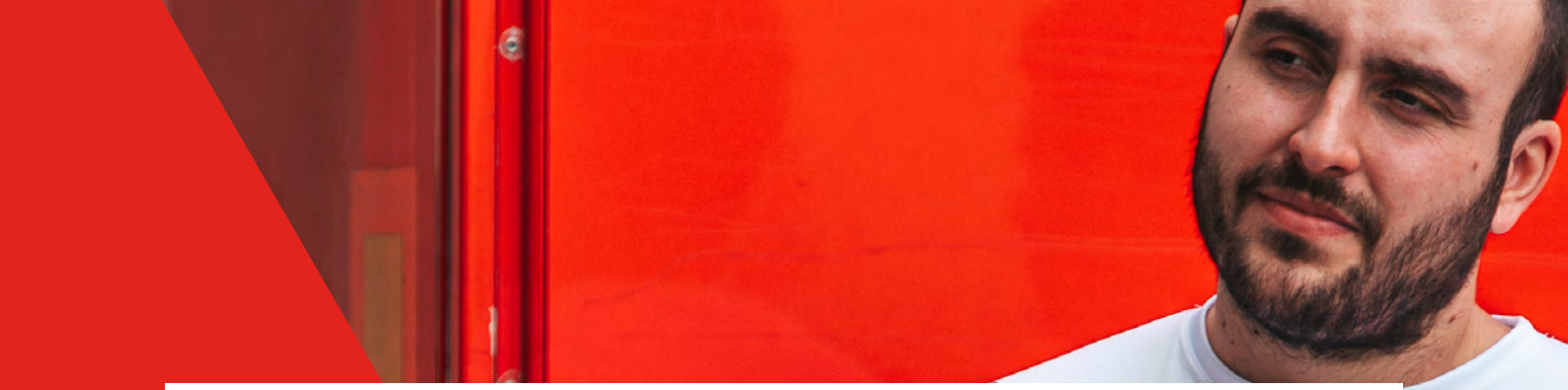
22. MATLAB SIMULINK FOR AUTOMOTIVE DESIGN

23. SPORTS MARKETING

24. SPORTIVE PSYCOLOGY

M Especialización Motociclismo

A Especialización Automovilismo



MODULE 1. MOTORSPORT INTRODUCTION

- Race motorbikes and race car history and championships available.
- FIM and FIA birth.
- Regulations in each championship and discipline.
- Evolution from categories and race teams from early stages to nowadays.
- From 500cc to moto GP. Formula 1 and FIA WRC evolution.

MODULE 2. PARTS LISTS: RACE CAR AND RACE MOTORBIKES

Identify all main parts from a race car and a race motorbike; detailing all main areas of a vehicle: Engine components, aerodynamics devices, chassis parts, powertrain etc...

With spare parts detailed module, the student will know perfectly all multiple and different pieces before knowing in total depth each specific module.

MODULE 3. RACING TEAM

- Race team management.
- Job description of the main positions inside a Racing team: Team Principal / Team manager / Race engineer / Data analyst / Chief mechanic / Mechanics.
- How to make a season budget, and job load plan during the season.
- Technical partners from a race team.
- Race insurance working principles, analysis of the different options available in the market and work to be done in a race accident.

MODULE 4. RACE MOTORBIKES DYNAMICS

Understand the basic concepts of the race motorbikes dynamic. Get into the race motorbikes behaviour on the race track.

- General race motorbikes geometries.
- Front direction and traction geometries.
- Suspension geometries.
-Mass, mass distribution, inertias and gyroscopic effects.
- Front and rear suspension characteristics.
- Race motorbikes tyre characteristics.
- Brakes.

MODULE 5. RACE CAR DYNAMICS

To gather extended vehicle dynamics understanding. To apply achieved knowledge into real race car cases. To understand the causes and effects of set up changes regarding race car dynamics.

- Vehicle performance.
- Slip angle and yaw.
- Oversteer and understeer.
- Suspension characteristics and geometry.
- Load trasfer formulae.
- Dampers and damping theory.
- Vehicle mathematical model.
- Tyres.
- Differential.
- Set up.

PLAN DE ESTUDIOS
MÓDULOS

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MODULE 6. RACE MOTORBIKES DATA ACQUISITION

Get the knowledge of the data acquisition system 2D on hardware and software side. Understand the different sensor and its use. Get into the race motorbikes analysis of the data's.

- Data acquisition system and its use.
- Targets of the data acquisition system.
- Hardware system: analogical and digital sensors, wiring loom and loggers.
- Installation of the system on the race motorbikes.
- Software system 2D.
- Different channels introduction: basics, specific for the engine and frame acquisition.
- Different channels for 2 and 4 stroke.
- Calibrations, Boise, filters and calculations.
- Way of work to set up and optimize the race motorbikes on the race track.
- Optimization of the 2 and 4 stroke.
- Optimization of the chassis performance.

MODULE 7. RACE CAR DATA ACQUISITION

- Sensors used in race car data acquisition.
- Description, calibration and interaction of sensors and ECU.
- Data analysis: chassis and engine.
- Data engineer job description.
- Main software used are : AIM, PI and Magneti Marelli.

MODULE 8. PTC CREO

- 3D solid creation using all tools available.
- Assemblies, static assemblies, dynamic assemblies; dynamic movement analysis using pro/mechanism; structural and thermal simulation.
- Surface modeling.

Mr. Shuei Nakamoto, HRC Vicepresident. FIM CEV Valencia

MODULE 9.
RACE BRAKES

- Brake system description, components, functionality and characterization.
- Brake balance calculation and sizing of brake components.
- Description of main brake problems and solutions proposed.
- ABS and brake by wire system description.

MODULE 10.
RACE SHOCK ABSORBERS

- Working principles of common shock absorbers.
- Shock absorber characterization on dyno.
- Springs, helpers, bump rubbers and its combination and interaction on vehicle setup.
- Natural frequency and damping coefficient calculation and choice depending on conditions.
- Hydraulic adjusters, working principles and effects on vehicle dynamics.

MODULE 11.
RACE ENGINE COMMON

- Main stroke engine components and its working principles.
- Engine thermodynamics.
- Engine kinematics and dynamics.
- Lubrication and refrigeration.

MODULE 12.
RACE MOTORBIKES ENGINE

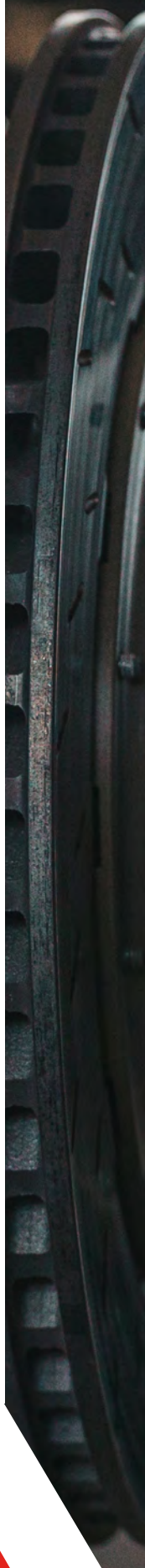
To distinguish the differences between 2 and 4 stroke engines. Get the knowledge of a 2 stroke racing engine.
Get knowledge of 4 stroke racing engine.
Know the transmission system of the motorcycle power train.

- Principals of 2 and 4 stroke.
- 2 stroke racing engines.
- 4 stroke different racing engine configurations.
- Intake analysis.
- Lubrication, fuel pump and refrigeration systems.
- Engine balancing.
- Gear box system, gears and shifter mechanism.
- Clutch system.
- Generators, electronic management and ECU systems.

MODULE 13.
RACE CAR ENGINE

To analyse and understand the different kind of engines (2 stroke, 4 stroke, Otto, Diesel, turbo, etc.)

- Needs for each kind of car, from formulas to GT's.
- Electronics applied.
- Different elements of the transmissions (gear box, differentials, etc.)
- Assembly of the different elements.



PLAN DE ESTUDIOS
MÓDULOS

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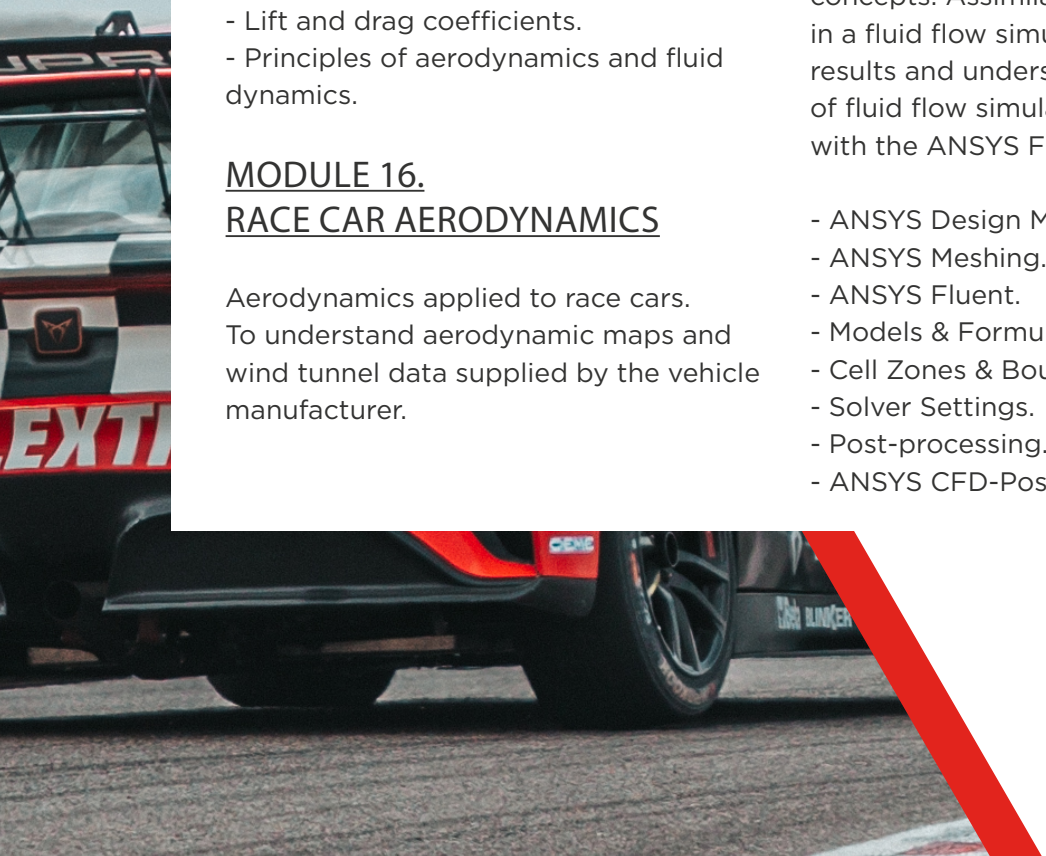


MODULE 14. RACE FUEL AND LUBRICANTS

- Repsol partnership.
- Race fuel and lubricants fabrication, chemical composition, main features analysis and its effect in race engine performance.
- Fabrication, homologation and logistics to supply in racetracks.

MODULE 15. AERODYNAMICS COMMON

Main principles of aerodynamics and fluid dynamics. To obtain an overview of aero concepts and body interaction. Knnowledge of aerodynamic formule and its application.

- Bernoulli's equation.
- The boundary layer.
- Lift and drag coefficients.
- Principles of aerodynamics and fluid dynamics.

MODULE 16. RACE CAR AERODYNAMICS

Aerodynamics applied to race cars. To understand aerodynamic maps and wind tunnel data supplied by the vehicle manufacturer.

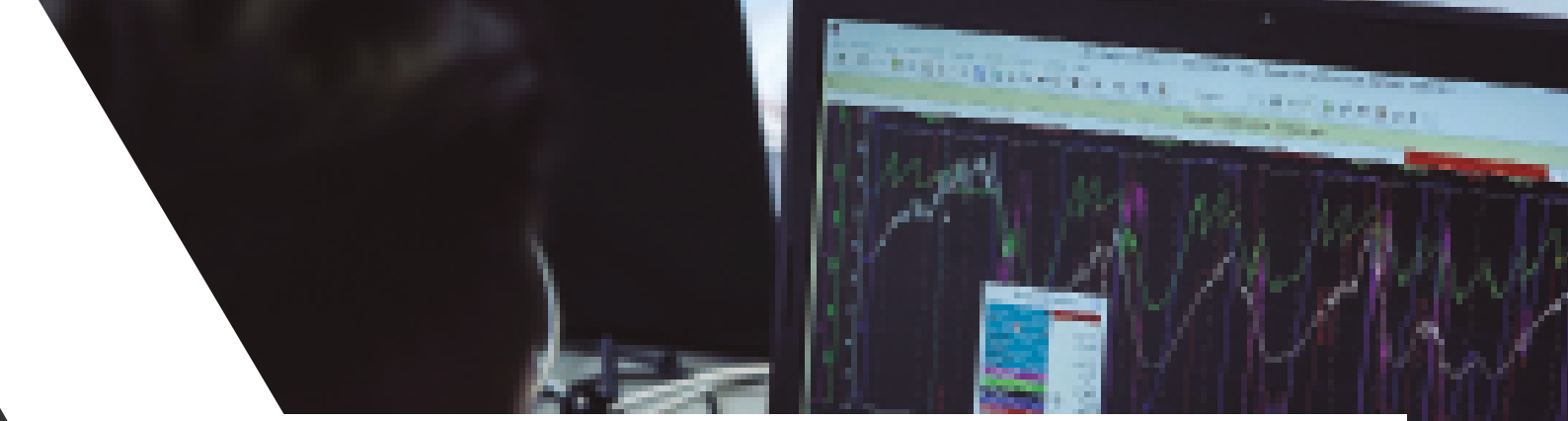
- History of race car aerodynamics.
- Main aerodynamic devices in a race car: wing, gurney, diffuser...
- Aeromaps.
- Wind tunnel testing.

MODULE 17. ANSYS

- Using finite element analysis (FEA), ANSYS Structural provides the method to predict the behaviour and performance of complex products of all kind of materials.
- The high demands on the structural elements with little weight in race vehicles, requires a precise analysis, with a correct definition and meshing of the geometry, a realistic definition of the stresses and a meticulous post-processing.

Review some basic fluid mechanics concepts. Assimilate the steps involved in a fluid flow simulation. Intercept the results and understand the limitations of fluid flow simulations. Get acquainted with the ANSYS Fluent simulation tool.

- ANSYS Design Modeler.
- ANSYS Meshing.
- ANSYS Fluent.
- Models & Formulation.
- Cell Zones & Boundary Conditions.
- Solver Settings.
- Post-processing.
- ANSYS CFD-Post.



MODULE 18. POWERTRAIN RACE MOTORBIKE

- Gear ratios calculation depending on weather conditions, track characteristics and race strategy.
- Its effect on driving style and engine performance: power and torque.

MODULE 19. POWERTRAIN RACE CAR

- Basic transmission layouts used in race cars.
- Component description.
- Gear ratios calculation.
- Race clutch description and classification.
- Organic, sinter and carbon clutches.

MODULE 20. MATERIALS

General overview of the materials used in motorsport. Learn how to choose the correct material for a given element or how to distinguish them. Know the basic properties of each material.

- Properties of the materials.
    - Physics
    - Mechanicals
- Classifications of the materials.
    - Metals.
    - Ceramics.
    - Polymers.
    - Semiconductor.
    - Compounds.
- Analysis race motorbikes needs.
    - Analysis of the needs.
    - Actual design.
    - Welding process.

MODULE 21. MATLAB FUNDAMENTALS

Understanding MATLAB software and its environment.
Provide a basic knowledge of MATLAB programming, usage of functions and script files.

Units:
- Fundamentals: vectors, matrices and operators.
- Functions.
- Plotting and graphics.
- Commonly used functions and subrutines.
- M-files.

PLAN DE ESTUDIOS

MÓDULOS

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MODULE 22. MATLAB SIMULINK FOR AUTOMOTIVE DESIGN

- Creating and modifying Simulink models and simulating system dynamic.
- Modeling continuous-time, discrete-time, and hybrid systems.
- Modifying solver settings for simulation accuracy and speed.
- Building hierarchy into a Simulink model.
- Creating reusable model components using subsystems, libraries, and model references.

MODULE 23. SPORTS MARKETING

- Race team management.
- Sportive marketing .
– Sponsorship management and race team finance situation.
- Introduction to Sports Marketing.
-Marketing Mix.
– Digital Marketing.
- Advertising as a form of sponsorship .
- Case Study (motorsport).
- Focus Sports Marketing / Sponsorship: Sponsorship in Sports Marketing (Motorsport).
- Calculating the Return on Investment (ROI) in a program of sports marketing.
- Concept 360: Exploitation of Sports Marketing.
- Development of a sports program and selection criteria of a sponsorship.
- Rights sponsor.
- Structure of the sponsors (Main, Secondary and Technical)
- Advantages and disadvantages of sponsorship.
- Keys to prepare a sponsorship proposal.

MODULE 24. SPORTS PSYCHOLOGY

- Team building.
- Management of relationships between team members.
- Relationship with driver / rider.
- Specific driver / rider preparation before free practice, qualifying and race.

MÁSTER EN INGENIERÍA EN MOTORSPORT ONLINE

EQUIPO DOCENTE

Sergi Borrull

Profesor Automovilismo / Ingeniero Industrial

Posee una larga trayectoria como ingeniero de pista y especialmente con los monoplazas. Fue Director Técnico de Pons Racing en las World Series by Renault. Posee una experiencia internacional contrastada y ha trabajado en GP2 y F3 Euroseries.

RICARDO CARRASCOSA

Profesor Automovilismo y Motociclismo / Ingeniero Industrial

Ingeniero de pista en Moto2 y SBK en el mundial FIM CEV Repsol. Ingeniero del equipo ASM en el WRC con un clio R3T. En 2016 trabajó en el World Supersport en el equipo del piloto Nico Terol. Actualemente es ingniero en el mundial de MotoGP en la categoría Moto2.

Daniel Gratacós

Profesor Automovilismo / Ingeniero Industrial

Ha sido ingeniero del equipo Jr. de Red Bull con Carlos Sainz y ha trabajado en la GP2 durante 4 años con pilotos como Timo Glock, Petrov o Maldonado. Ingeniero en las World Series by Renault con Jaime Alguersuari y de otros campeonatos como la A1GP, Formula SuperLeague, F3, GT's. Fue el ingeniero de pista de Susie Wolff en el equipo Mercedes Benz del DTM. Jefe de ingenieros en las World Series by Renault 3.5 en el equipo AV Formula. Ingeniero de Peugeot Sport y concretamente de Carlos Sainz con el proyecto Dakar.

MÁSTER EN INGENIERÍA EN MOTORSPORT ONLINE

EQUIPO DOCENTE

Francisco Manuel López

Profesor Automovilismo / Ingeniero Industrial

Participó en el desarrollo del Concept Car Linx en 2002 y en el Formula1 Triplaza de LRS en 2004. Actualmente es coordinador del área de motores de la escuela de mecánica de Monlau Repsol Technical School. Ingeniero de pista del equipo Monlau y especialista en motores.

Carlos López

Director de Estudios en Monlau Repsol Technical School

Profesor de Orientación Laboral. Abogado.

Max Moro

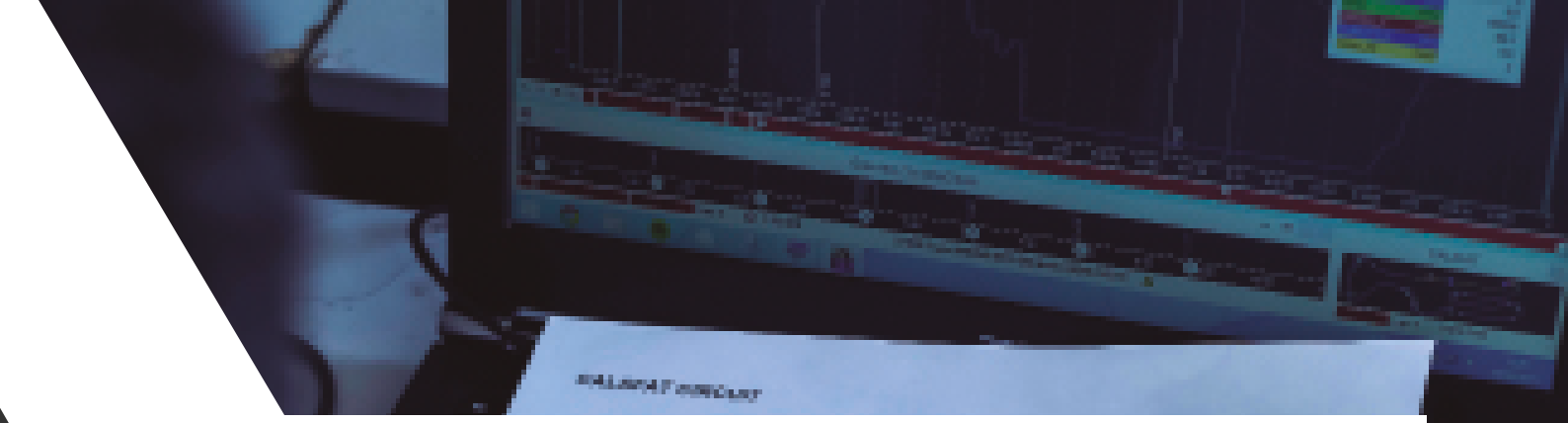
Profesor Motociclismo

Su carrera en motociclismo comienza en 1979 con carreras de tierra. En 1988 cambió del off-road al circuito en el Campeonato Italiano como mecánico con el Team Honda. En 1997, como técnico, ganó el Suzuki Word Supersport Championship. En 2013 ganó el European Superstock 600 con Team Yakhnich. En 2017 fue el Jefe de mecánicos del equipo Carxpert Moto2 con Tom Luthi.

Marc Nadal

Profesor Motociclismo / Ingeniero Mecánico

Ingeniero de pista con una dilatada experiencia en distintas disciplinas como el DTM, GT´s, WSR 3.5 y la A1GP. Estuvo varias temporadas en el equipo oficial de Opel en el DTM. Es gerente de Nadaltech, especialista en suspensiones de competición.



Jaime Serrano
Director General en Monlau Motul Technical School
Profesor del módulo de Dirección y Marketing Deportivo.
Business Management y MBA.

David Simón
Profesor Automovilismo / Ingeniero Industrial
Director del Departamento de Competición de Automovilismo de Monlau Motul Technical School. Actualmente también es profesor del área de turismos y electricidad en la escuela de Mecánica de Monlau Motul Technical School.

Albert Talamino
Profesor Motociclismo / Ingeniero Industrial
Ingenierio de pista en el equipo LRC Honda en MotoGP.

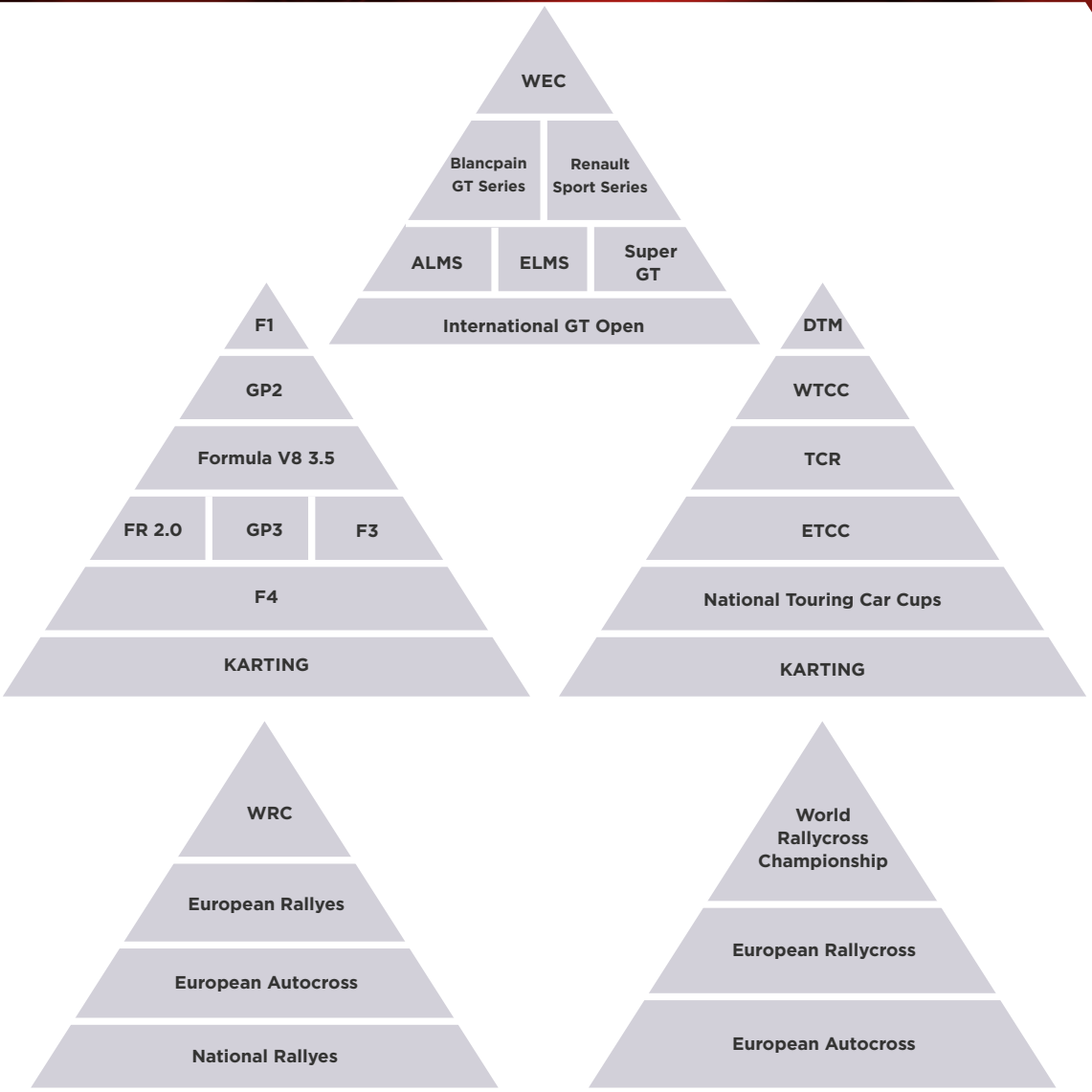
Piero Celi
Coordinador Máster Online y Profesor de Motociclismo
Data Recorder en el equipo Team Estrella Galicia 0,0 en el FIM JuniorGP. Miembro del staff técnico del Departamento de Competición de Motociclismo de Monlau Motul.

SALIDA PROFESIONAL

¿DÓNDE TRABAJAR?

MOTORSPORT WORLDWIDE OVERVIEW

RACE CAR



FIA CHAMPIONSHIPS

CIRCUIT

Formula One World Championship
World Endurance Championship
World Touring Car Championship
Formula E Championship
European Formula 3 Championship
European Truck Racing Championship
Formula 4 Championships
European Touring Car
Drag Racing
Alternative Energies
FIA GT World Cup
Karting

RALLYES

World Rally Championship
European Rally Championship
European Rally Trophy
Asia-Pacific Rally Championship
Middle-East Rally Championship
African Rally Championship
CODASUR Rally Championship
NACAM Rally Championship
Trophy for Historic Rally Championship
Cross Country Rallies

OFF ROAD

World Rallycross Championship
European Rallycross Championship
European Autocross

HILL CLIMB

European Hill Climb Championship
International Hill Climb Cup
Hill Climb Masters

HISTORIC

Masters Historic Formula One Championship
Masters Historic Sports Car Championship
Lurani Trophy For Formula Juniors Cars
European Historic Sporting Rally Championship
Historic Regularity Rally
Historic Hill Climb

FIA INTERNATIONAL SERIES

CIRCUITS

24H Series powered by Hankook
ADAC GT Master
ADAC Sachsen Historic Cup
ADAC TCR Germany
Asian Le Mans Series
Asian Le Mans Series Sprint Cup
Audi R8 LMS Cup
Audi Sport TT Cup
AvD Historic Race Cup
Belgian Gentlemen Drivers Cup
Blancpain GT Series
BMW M235i Racing Cup
BOSS GP
Cayman GT4 Trophy
Challenge Endurance GT / Tourisme VdeV
Challenge Endurance Proto VdedV
Championnat de France F4
Championnat de France FFSA GT & Prototypes
Classic Endurance Racing
Cup and Tourenwagen Trophy
Deutscher Tourenwagen Cup DTC
DTM
Eurocup Formula Renault 2.0
EuroFormula Open
European Le Mans Series
European VW Fun Cup
Ferrari Challenge Trofeo Pirelli Asia Pacific
Ferrari Challenge Trofeo Pirelli Europe
FHR HTGT um die Dunlop-Trophy
Formel VAU Europe
Formula 3.5 V8
Formula Renault 2.0 Northern Europe Cup
GP2
GP3
Groupe C Racing
GT Asia Series
GT Sports Club
GT und Touring Car Cup (DMV GTC)
GT4 European Series
Heritage Touring Cup
HSCC Historic Formula 2
International GT Challenge
International GT Open
Inernational V8 Supercars Championship
KIA Lotos Race
Lamborghini Blancpain Super Trofeo Asia
Lamborghini Blancpain Super Trofeo Europe
Lotus Cup Europe
Masters European Series
Michelin GT3 Le Mans Cup
MRF Challenge
Nascar Whelen Euro Series
Opel Astra OPC Cup
P9 Challenge
PCHC - Porsche Club Historic Challenge
Porsche Carrera Cup Asia
Porsche Carrera Cup Deutschland
Porsche Carrera Cup France
Porsche GT3 Cup Challenge Benelux
Porsche GT3 Cup Challenge Middle East
Porsche Mobil 1 Supercup
Porsche Platium GT3 Cup Challenge Central Europe
Porsche Sports Cup
Radical European Masters
Renault Clio Cup Central Europe
Renault Sport Trophy
Seat Leon Eurocup
Sixtie's Endurance
Super GT Series
Supercar Challenge
Superrace Championship
TCR Asias Series
TCR International Series
TMG GT 86 Cup
Touring Car Endurance Series powered by Hankook
Triumph Competition & British GTs
Trofeo Nastro Rosso
VLN Langstreckenmeisterschaft Nürburgring
Youngtimer Trophy

RALLYES

Clio R3T Alps Trophy
Drive DMACK Fiesta Trophy
Mitropa Rallye Cup

HILL CLIMBS

KW Berg Cup

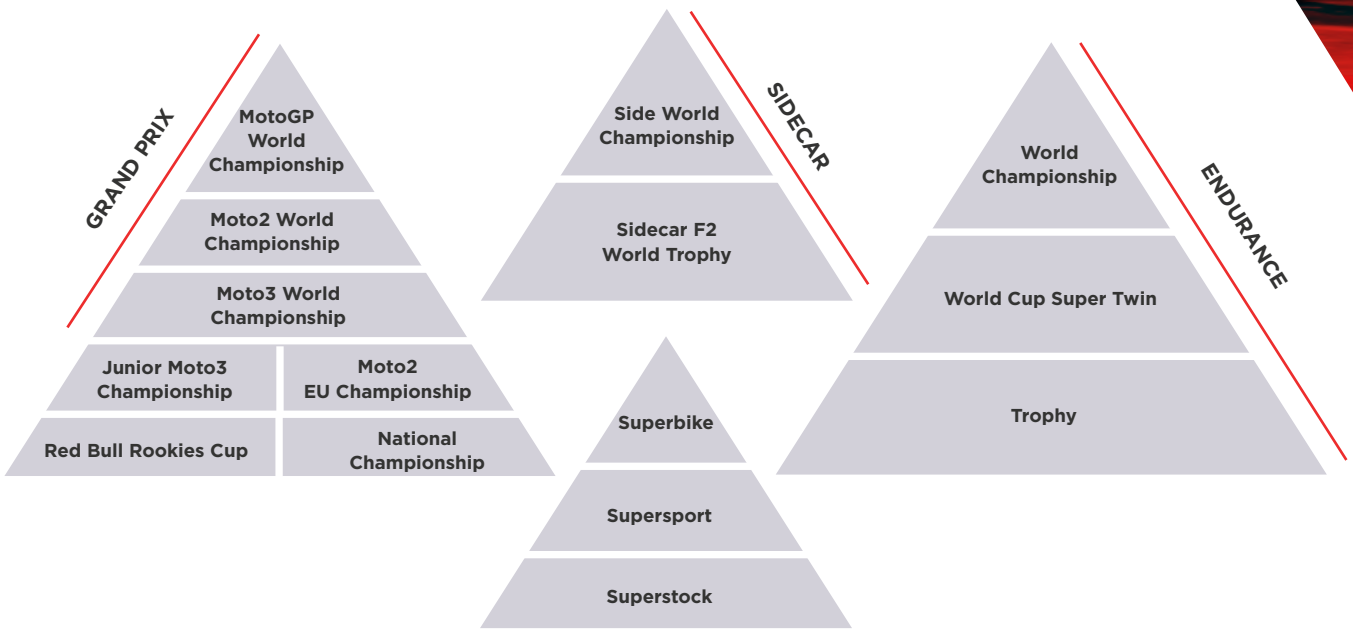
OFF ROAD

Rallycross Challenge Europe
RX Lite Cup

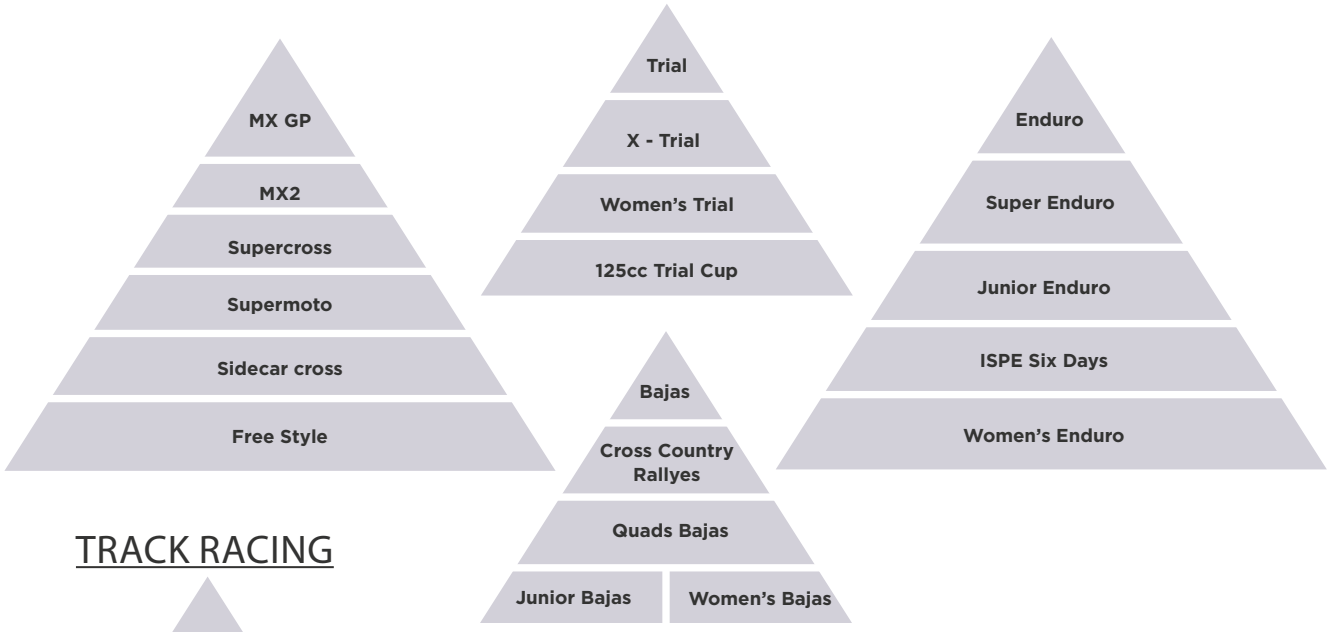
SALIDA PROFESIONAL
¿DÓNDE TRABAJAR?

MOTORSPORT WORLDWIDE OVERVIEW
RACE MOTORBIKES

ON ROAD



OFF ROAD



TRACK RACING

CIRCUIT RACING

MAIN DISCIPLINES

Grand Prix
Superbike/Supersport
Endurance
Sidecar
Sidecar F2 World Trophy
Superstock
Red Bull Rookies Cup
FIM CEV Repsol Moto3™ Junior World Championship
World Records Attempts

SECONDARY DISCIPLINES

International Circuit Race Meetings
International Hill Climb Meetings
International Endurance Meetings
International Sprint and Drag Meetings
International Vintage Meetings
International Classic Meetings
Latin-American Road Racing Regional Cup
Latin-American Road Racing Regional Championship
Latin-American Open Road Racing Cup
Ibero american Open Road Racing Championship
Panamerican Open Road Racing Championship
European Road Racing Championship
European Dragbike Championship
European Hill Climb Road Racing Cup
European Superstock 600 Championship
European Mini Moto Road Racing Championship
Latin-American Open Road Racing Championship
Asia Road Racing Championship
Asian Cup of Road Racing
North-American Vintage Road Racing Championship
African Road Racing Championship

MOTOCROSS

MAIN DISCIPLINES

Motocross - MXGP/MX2
Sidecarcross
Junior Motocross
Supercross
SuperMoto
Snowcross
Motocross of Nations
Women's Motocross
Freestyle
SuperMoto of Nations
Veterans' Motocross
FreeStyle of Nations
Women's SnowCross

SECONDARY DISCIPLINES

Latin American Supercross Regional Cup
Latin American Supercross Regional Championship
Latin American Quad Cross Regional Cup
Latin American Quad Cross Regional Championship
Latin American Women Motocross Regional Cup
Latin American Women Motocross Regional Championship
Latin American Supermoto Regional Cup
Latin American Supermoto Regional Championship
Latin-American Freestyle Motocross Regional Cup
Latin American Freestyle Motocross Regional Championship
Latin-American Motocross Regional Cup
Latin American Motocross Championship Open Class
Latin American Motocross Regional Championship
Latin American Motocross of Nations
Ibero American Supermoto Championship
Latin American Veterans Motocross Championship
Latin-American Women Motocross Championship
Latin-American Supermoto Championship
125 cc Individual Eurpean Motocross Championship
250 cc Individual European Motocross Championship
65 cc Individual European Motocross Championship
European Supercross Championship
80 cc Individual European Motocross Championship
Motocross of European Nations
Sidecarcross of European Nations
European Supermoto Championship
European Snowcross Cup
Latin-American Motocross Cup
Individual Latin-American Motocross Championship - MX2
Individual Latin-American Motocross Championship - MX1
Latin-American Supermoto Cup
Latin-American Quadcross Championship
80 cc Individual Latin-American Motocross Championship
125 cc Latin-American Supercross Championship
250 cc Latin-American Supercross Championship
Latin-American Freestyle Motocross Cup
Latin-American Minicross Cup
Asian Motocross Supercross Championship
Asian Supermoto Championship
North American Supercross Lites Championship
African Motocross Championship
International Motocross Meetings
International Quad meetings
International Motocross Freestyle Meetings
International Meetings with Artificial Obstacles
International Supercross Meetings
International Supermoto Meetings
International Snowmobile Meetings

TRIAL

MAIN DISCIPLINES

Trial des Nations
Trial
X-Trial
Women's Trial
Women's Trial des Nations
Trial World Cup
X-Trial des Nations
125cc Trial Cup

SECONDARY DISCIPLINES

Latin-American Trial Regional Cup
Latin-American Trial Regional Championship
European Trial Championship
European Trial Women's Championship
European Trial Youth Championship
Individual Latin-American Championship for Trial
Latin-American Indoor Trial Cup
North-American Trial Championship
International Trial Meetings
International X-Trial Meetings

ENDURO

MAIN DISCIPLINES

FIM Enduro Vintage Trophy
ISDE Six Days' Enduro
Enduro
Junior Enduro
Women's Enduro
Youth Enduro
SuperEnduro
Junior & Women SuperEnduro

SECONDARY DISCIPLINES

Latin-America Enduro Regional Cup
Latin-American Enduro Regional Championship
Individual European Enduro Championship
European Sidecar Enduro Championship
Individual Latin-American Two Days' Enduro Championship
Individual Asia Two Days' Enduro Championship
Asian Enduro Championship
North-American Enduro Championship
African Baja Enduro Championship
International SuperEnduro Meetings
International Enduro Meetings

MONLAU MOTUL TECHNICAL SCHOOL

RALLIES

MAIN DISCIPLINES

Cross-Country Rallies
Women's Cross-Country Rallies
Quads Cross-Country Rallies
Junior Cross-Country Rallies
Bajas
Women's Bajas
Quads Bajas
Junior Bajas

SECONDARY DISCIPLINES

Latin-American Cross Country Rallies Regional Cup
Latin-American Cross Country Rallies Regional Championship
European All-Terrain Rallye Cup
Latin-American Cross-Country Rallies Championship
African Motorcycle Rallies Championship
International Cross-Country Rallies Meetings
International Bajas Meetings

TRACK RACING

MAIN DISCIPLINES

Speedway Grand Prix - Qualifications
Speedway Grand Prix
Astana Expo FIM Ice Speedway Gladiators
Astana Expo FIM Team Ice Speedway Gladiators
Long Track
Speedway Under 21
Team Speedway Under 21
Speedway World Cup
World Speedway League
Team Long Track
Flat Track
Speedway Youth World Cup 250cc
Long Track Youth World Cup 250cc
Speedway Youth Gold Trophy 85cc
Track Racing Youth Gold Trophy 125cc

SECONDARY DISCIPLINES

European Motoball Championship
European Grass Track Championship
European Individual Speedway Junior Championship
European Speedway Club Champions' Cup
80 cc Youth Speedway Racing UEM Cup
Pairs Speedway European Championship
European Short Track Championship
Youth Grass Track 125cc UEM Cup
North American Track Racing Championship
European Individual Ice Racing Championship
European Individual Speedway Championship
International Speedway Meetings
International Long & Grass Track Racing Meetings
International Flat Track Meetings
International Speedway League Meetings
International Ice Racing Meetings

CÓMO ACCEDER

DURACIÓN
La duración total del Máster Online en Ingeniería en Motorsport es aproximadamente de un año académico.

LOCALIZACIÓN
La sede de Monlau Motul Technical School se encuentra en la Calle Potosí 38, en la ciudad de Barcelona, España.

CERTIFICADO
Monlau Motul Technica School otorgará su diploma de Ingeniero/a de Automovilismo y/o Motociclismo en Motorsport.

INFORMACIÓN ADICIONAL
El departamento de Atención al Estudiante está disponible para dudas o sugerencias.

Teléfono: +34 93.274.40.75
WhatsApp: +34 644 644 946

Horario administrativo: (GMT +1)
de 9:00h. a 13:00h.
y 15:30h. hasta las 19:00h.

E-mail
info@monlau-motorsport.com

INSCRIPCIÓN

Precio total: **3.985**€ + 2 Práctica en Pista.

Método de pago: Transferencia bancaria.

REQUISITOS ESTUDIANTE
Para acceder al Máster Online en Ingeniería en Motorsport nuestros estudiantes deben cumplir alguno de los siguientes requisitos:

- Disponer de un grado o licenciatura en Ingeniería.
- Experiencia contrastada en el mundo del automovilismo o motociclismo.

PROCESO DE ADMISIÓN
Una vez enviada, por el candidato, toda la información que acredite que cumple los requisitos para ser estudiante, ésta pasará al Comité de Admisión de Monlau Motul Technical School para su validación.

En menos de 15 días se notificará vía email al candidato los resultados del proceso de admisión. En el caso de ser un perfil válido, el/la estudiante recibirá en su domicilio el Welcome Pack con toda la información necesaria para el inicio del Máster.

CONTACTO INFORMATIVO

ENVÍO DE DATOS ACREDITATIVOS PARA PODER ACCEDER AL MÁSTER

MONLAU MOTUL TECHNICAL SCHOOL COMITÉ DE ADMISIÓN

PROCESO DE ADMISIÓN APROBADO

ENVÍO WELCOME PACK

PATROCINADORES:

Monlau Motul Technical School
C/ Potosí, 38
08030 Barcelona

Tel. 93 274 40 75

info@monlau-motorsport.com

www.monlaumotorsportacademy.com