RACE ENGINEER MOTORSPORT COURSE

CREATED BY:

Alberto Díaz Macías

Hugo Duch Leira

PRESENTATION

- Why take this course
- What to expect
- What you need

WHY TAKE THIS COURSE

ALBERTO DIAZ   **RACE ENGINEER**

- **LMP3 & GT4 Endurance (2019)**
  - Tyre specialist & Data Engineer
  - Race Engineer
- **TCR Europe and Spanish Endurance Championship (2020)**
  - Race Engineer
- **GT4 Europe & GT4 France (2021)**
  - Race Engineer
- **Single Seaters (2022 – Today)**
  - **Formula 4**
  - **GP3**
  - **Eurocup3**

WHY TAKE THIS COURSE

HUGO DUCH

o **M2 Competition (2019-2020)**

   o Data and Race Engineer in Formula Renault Eurocup

   o Data Engineer at the New Zealand Toyota Racing Series

   o Race Engineer FRECA

o **MP Motorsport (2021-Today)**

   o Race Engineer in Formula 4 Spanish Championship

   o Race Engineer in Eurocup 3

RACE ENGINEER

WHY TAKE THIS COURSE

BEING A RACE ENGINEER

o **Key tasks:**

   o Identify and Improve race car Performance

   o Check the vitals and reliability of a race car

   o Planning and strategy

   o Driver development

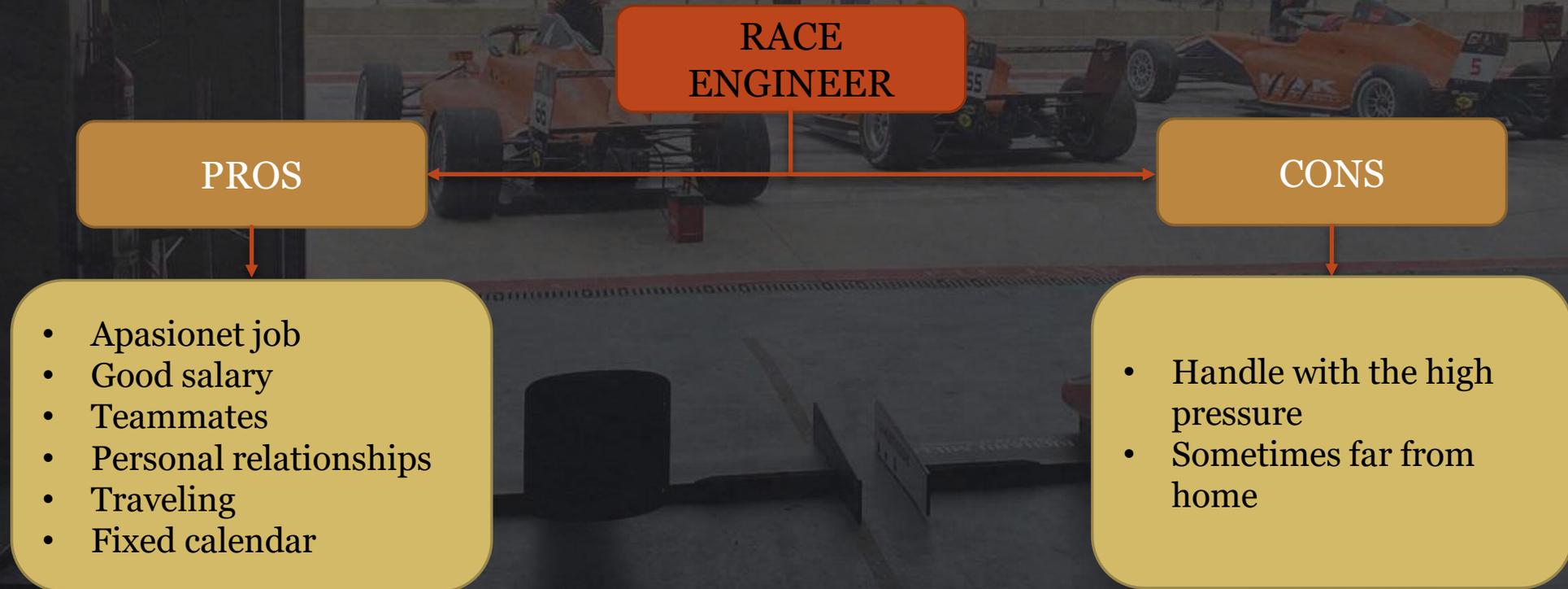   o Unify the crew around the race car. TEAM SPIRIT

THEY ARE LEGENDS

WHY TAKE THIS COURSE

BEING A RACE ENGINEER

o **Roles inside a team**

```
                    TEAM
                  MANAGER


    CHIEF                          CHIEF
  ENGINEER                       MECHANIC


  • Race Engineer              • First Mechanic
  • Performance Engineer       • Second Mechanic
  • Data Engineer              • Tyre and Fuel Crew
  • Driver Coach               • Truckie
```

WHY TAKE THIS COURSE

BEING A RACE ENGINEER

RACE ENGINEER

PROS ⟷ **CONS**

- Apasionet job
- Good salary
- Teammates
- Personal relationships
- Traveling
- Fixed calendar

- Handle with the high pressure
- Sometimes far from home

WHY TAKE THIS COURSE

o Teaching the topics and tools that WE would have liked to know when we started in motorsport

o Come out with a solid base of knowledge to build upon

o For beginners and for experienced people

o Based on many years of experience on race tracks

o Online platform &"eClass" to solve doubts and questions

o Focus on all areas related to the job

o Course-Block completion certificate

WHY TAKE THIS COURSE

COURSE STRUCTURE

- **Dynamics:**
  - *Vehicle components*
  - *Calculations*

WHY TAKE THIS COURSE

COURSE STRUCTURE

o **Set Up and Performance:**

    o *Setting up a Race Car*

        o Tools

        o Creating a flat patch

        o Set Up and Set Down procedures

o *Corners*

    o Types and phases

o *Driver feedback*

o *Making changes on the car*

o *Race Car development*

WHY TAKE THIS COURSE

COURSE STRUCTURE

o **Data:**

    o *Softwares*

    o *Sensors on the car*

    o *Driving*

    o *Reliability and Maintenance*

    o *Performance*

WHY TAKE THIS COURSE

COURSE STRUCTURE

- **Race Engineering:**
  - *Relationship with the drivers*
  - *Working with your mechanics*
  - *Working with manufacturers*
  - *Weekend preparation*
  - *Sessions and what to do*
  - *Post Weekend Analysis*
  - *Workshop*

WHAT TO EXPECT

The student will be able to perform as:

o Performance engineer

o Data Engineer

o Reliability Engineer

o Driver Coach

The student will receive all the necessary tools to deal with the job on and off the track

WHAT YOU NEED

o A laptop & Internet connection

o Be passionate about motorsport

o Open mind

o Hunger to learn, improve and compete

o Good attitude

o Team spirit

BLOCK PRICING

BLOCK I: DYNAMICS 250€	BLOCK II: SET UP & PERFORMANCE (TBC)	BLOCK III: DATA (TBC)	BLOCK IV: RACE ENGINEERING (TBC)

- *Vehicles components*
- *Dynamics*

- *Setting up a race car*
- *Corners*
- *Driver feedback*
- *Making changes*
- *Race car development*

- *Softwares*
- *Sensors on the car*
- *Driving*
- *Reliability*
- *Performance*
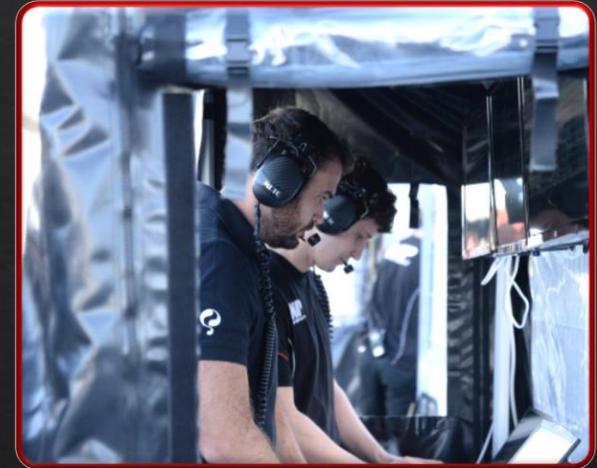
- *Relationship with the driver*
- *Working with your mechanic*
- *Weekend preparation*

CONTACT DETAILS

WEBSITE	EMAIL	INSTAGRAM	TIKTOK
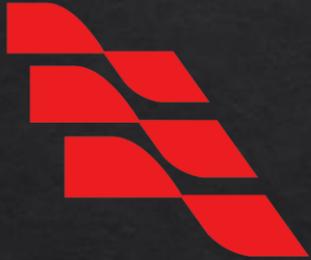
www.trackside95.com
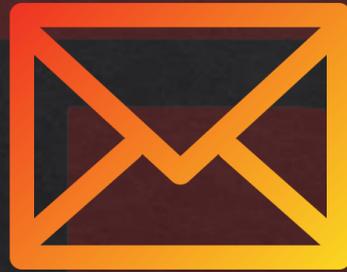
support@trackside95.com

@trackside.95

@trackside95