

Fabrizio Acciavatti

Mechanical Engineer | Composite Structures & Race Data Engineer

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Mechanical Engineer with a dual technical path: since 2015, Head of Composite Structures FEA and Process at ARS-Tech, leading R&D, FEM analysis and structural validation of carbon fiber components for motorsport and automotive applications. In parallel, active since 2022 as Race Data Engineer in SBK/SS national championship (CIV) teams, covering ECU calibration (MECAL) and race data analysis/scripting (2D-Datarecording CalcTool). Combines structural simulation depth with hands-on trackside data and calibration experience.

WORK EXPERIENCE

Head of Composite Structures FEA and Process

ARS-Tech Composite Structures

Controguerra, Italy

12/2015 - Present

- Lead R&D, material testing and development of manufacturing processes for high-end carbon-fiber composite components for motorsport and automotive applications.
- Responsible for FEM modelling, structural analysis and validation of chassis and composite structural components.
- Coordinate physical testing activities for FIA homologation and research purposes.
- Manage engineering projects from technical feasibility and cost definition through planning, technical documentation and coordination with customers and internal teams.
- Drive product and process optimization based on technical requirements, development feedback and production needs.

Race Data Engineer

Bike&Motor Racing Team

CIV - SBK/SS national championship

2022 - 2023, 2026 - Present

- ECU management and calibration using MECAL (Mectronik), including SSP&NG parameter setup.
- Race data acquisition and analysis with 2D-Datarecording CalcTool and Analyzer across multi-DAQ systems.
- Trackside calibration support and reporting to optimize setup and rider performance.

Race Data Engineer

Broncos Racing Team

CIV - SBK/SS national championship

2023 - 2024

- ECU management and calibration using MECAL (Mectronik).
- Development of CalcTool scripts for signal filtering, gear-change masking, sensor delay compensation and automatic channel selection.

Research Intern

Siemens Industry Software (former LMS International)

Leuven, Belgium

06/2015 - 12/2015

- Infrared thermographic non-destructive testing.
- Data analysis using MATLAB scripts.

EDUCATION

Master Degree - Mechanical Engineering

Università Politecnica delle Marche

Ancona, Italy

- Thesis: "Study and validation of novel path-finding methods to extend CSLDV techniques to arbitrary areas".
- Erasmus Placement: University of Bristol, UK.
- Erasmus Study: Universidad de Huelva, Spain.

SKILLS & COMPETENCIES

MECAL / MECTRONIK ECU

2D CALCTOOL / ANALYZER

PYTHON (IRONPYTHON)

CATIA

LAMINATE TOOLS

MATLAB

NX NASTRAN

NX UNIGRAPHICS

SIMCENTER

MEDIATION

PROBLEM SOLVING

TEAM WORK

TENACIOUS

TIME MANAGEMENT

TRAINING

Alpha Racing - M RCK Training

M-RCK with Bosch BMW ECU and software

MecTronik - Advanced SSP&NG ECU management

Held by MecTronik

Ultrasounds non-destructive testing of CFRP

Held by TÜV Italia

Finite element modelling and analysis of CFRP

Held by SmartCAE

Project Management - Lean Manufacturing

Held by Assioma Management

Race Car Data Analysis

Held by 6ix Engineers

SIEMENS Simcenter, NX12 and NX NASTRAN

Held by Siemens

Motorbike Suspension

Held by Andreani Group

SCIENTIFIC PUBLICATIONS

"Continuous-scanning laser Doppler vibrometry: Extensions to arbitrary areas, multi-frequency and 3D capture" — B. Weekes, D. Ewins, F. Acciavatti

11th International Conference on Vibration Measurements by Laser and Noncontact Techniques - AIVELA 2014. AIP Conference Proceeding, Jun 27, 2014.

LANGUAGES

English

Full Professional Proficiency

Spanish

Full Professional Proficiency

INTERESTS

RACING

GUITAR PLAY

RUNNING