

Analog CAN Converter (ACC)

Compact Yet Powerful



Host:

Roger Caddell

AiM Sports - National Training Manager

Co-Host:

Chloé Lerin

MotoAmerica Data Engineer



[aimsports.com](https://www.aimsports.com)

Tuesday October 31st, 2023

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Chloé Lerin



- **Powertrain Performance Engineer at Harley-Davidson**
- **Winning Race Data Engineer at MotoAmerica (Team Hammer)**
- **AiM Trackside Support Technician**
- 12 Years in Internal Combustion Engine R&D
Works with Engine Dynos
- Master's degree in Mechanical Engineering from
the University of Wisconsin-Madison
- Engineering Diploma from UTT, France
- Amateur Motorcycle Club Racer #147



Chloé Lerin

Motorcycle Data Engineer



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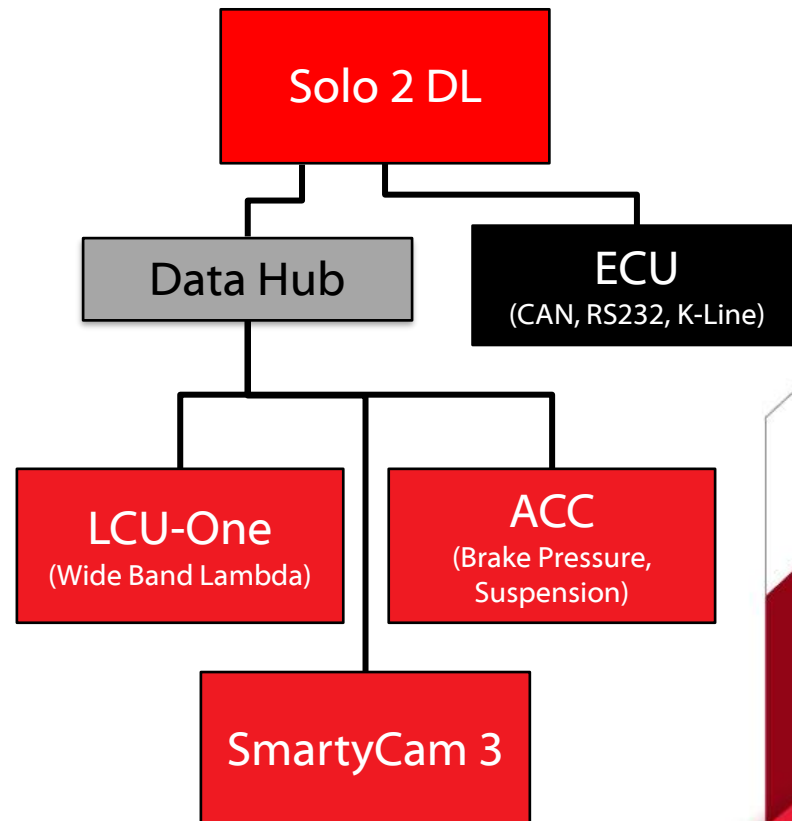
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ACC

Analog-to-CAN Converter



Your New Favorite Acronym and a Full Data System that fits in your Purse
Expansion that Allows you to add **up to 4 Analog Sensors** to your Solo 2 DL!



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Analog CAN Converter (ACC)

Analog to CAN Converter

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Hardware Setup

Plug, Click and Play

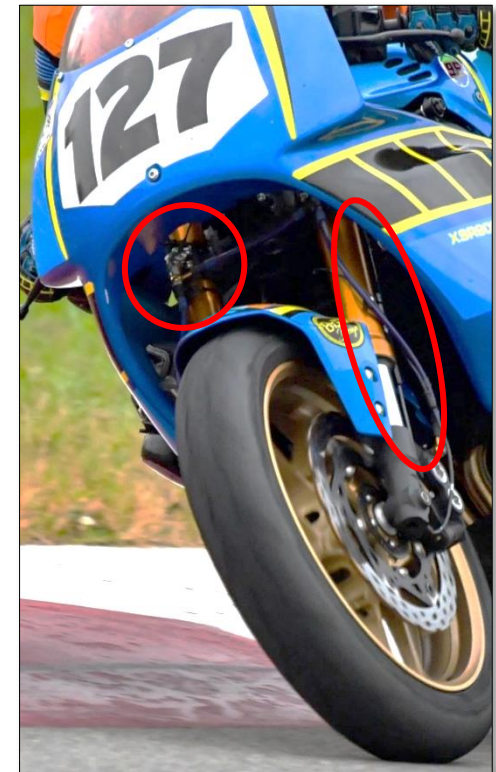


Easy Add-On for Your Solo 2 DL

Compact and Easy to Set Up

Options for Ease of Installation:

- Brake Lines from: CORE Moto
- Potentiometer Mounts from: ByJMR
- Solo 2 DL Mounts from: ByJMR



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Plug, Click, and Play



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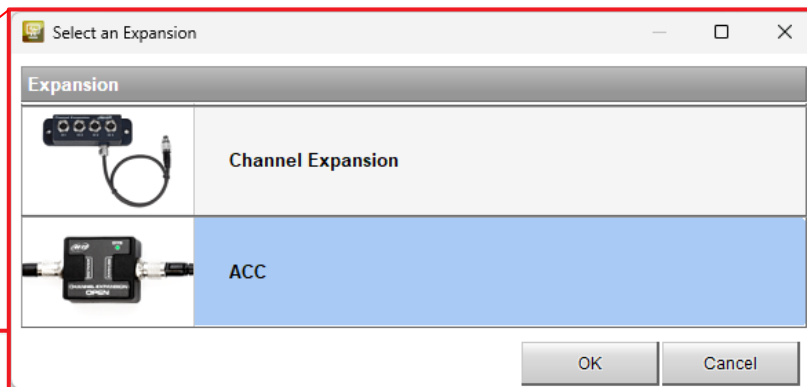
Race Studio 3 Setup

Adding the ACC to a Configuration



Download the Latest Firmware Version and Update Logger and ACC/Expansions

- Solo 2 DL: 2.40.80 or newer
- Solo 2 DL v2: 2.42.00 or newer



Tools: [Icons for various functions]

All **Solo 2 DL XSR**

Save Save As Close Transmit

Channels ECU Stream **CAN Expansions** Math Channels Parameters LED-Bars Display SmartyCam Stream CAN Output 1

New Expansion

All **ACC**

Expansion Name (7 Characters Max.)

Expansion Serial Number (S.N.)

ACC

100109

Get Expansion Serial Number

ID	☒	Name	Function	Sensor	Unit	Freq
Ch01	☒	SuspF	Shock Position - Front	AIM Eclipse	mm 0.1	200 Hz
Ch02	☒	BrkF	Brake Circuit Pressure	0-100 bar (X05PSA00100Bxx)	psi	50 Hz
Ch03	☐	ACC Channel03	Voltage	Generic 0-5 V	mV	20 Hz
Ch04	☐	ACC Channel04	Voltage	Generic 0-5 V	mV	20 Hz

Race Studio 3 Setup

Selecting the Proper Sensors

- Common Sensors are Brake Pressure and Suspension Potentiometers, but Different Types Exist for Both. Pay Attention to the Type and Serial Number!
- Setting up the Sensor Function will Facilitate Current and Future Data Analysis
- Choosing the Appropriate Sampling Frequency Improves Data Quality



Expansion Name (7 Characters Max.)
 Expansion Serial Number (S.N.)

ACC
 100109

Get Expansion
 Serial Number

ID	☒	Name	Function	Sensor	Unit	Freq
Ch01	☒	SuspF	Shock Position - Front	AIM Eclipse	mm 0.1	200 Hz
Ch02	☒	BrkF	Brake Circuit Pressure	0-100 bar (X05PSA00100Bxx)	psi	50 Hz
Ch03	☐	ACC Channel03	Voltage	Generic 0-5 V	mV	20 Hz
Ch04	☐	ACC Channel04	Voltage	Generic 0-5 V	mV	20 Hz

Channel Settings

Name: SuspF
 Function: Shock Position
 Position: Front
 Sensor: AIM Eclipse
 Sampling Frequency: Position Pot. AutoCal
 Unit of Measure: AIM Eclipse
 Display Precision: 1 decimal place

Potentiometer Parameters
 Total potentiometer travel: [mm] 150
☒ Reverse sign

Save Cancel



Channel Settings

Name: BrkF
 Function: Brake Circuit Pressure
 Sensor: 0-100 bar (X05PSA00100Bxx)
 Sampling Frequency: 50 Hz
 Unit of Measure: psi

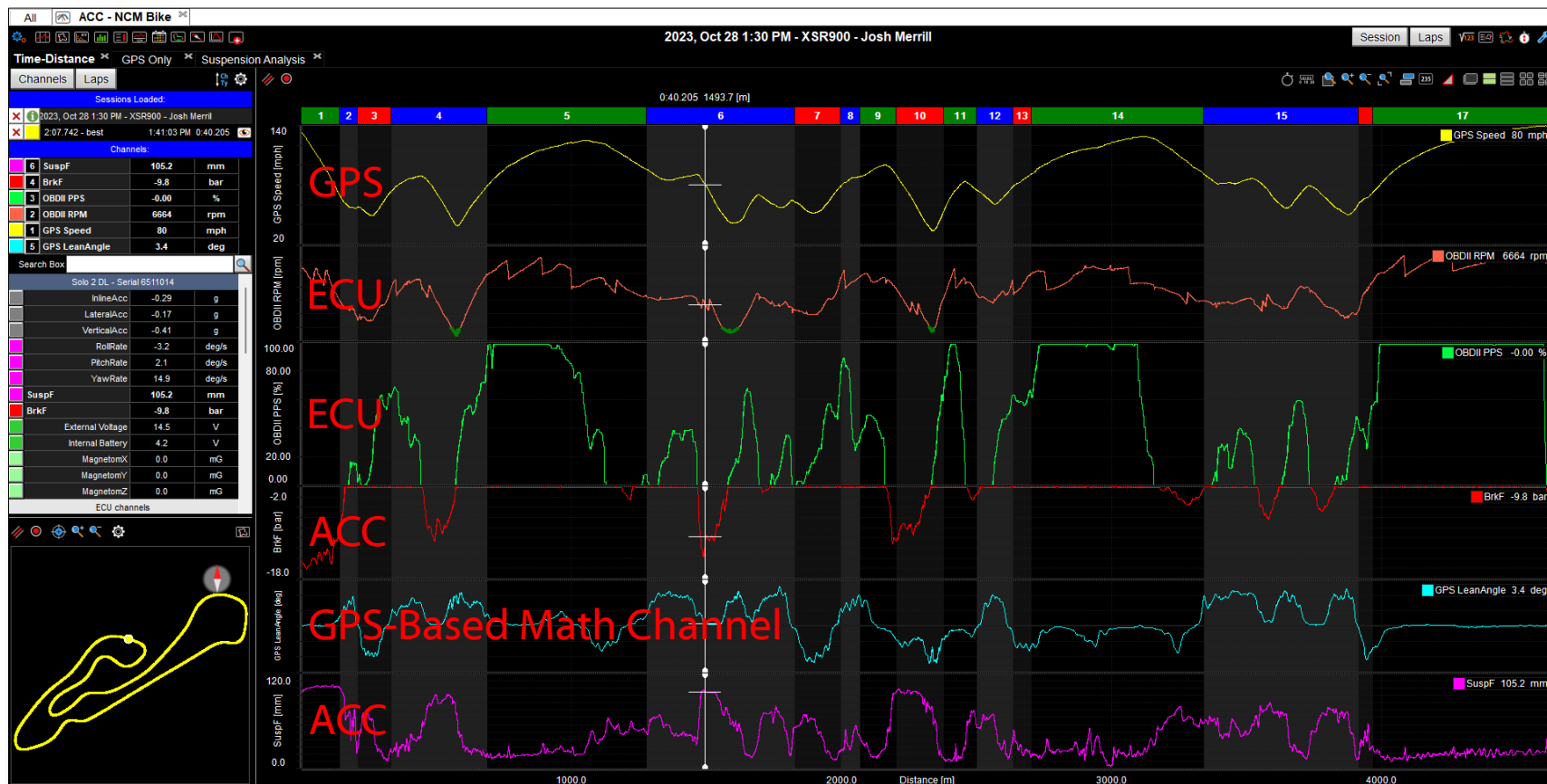
0-5 bar abs (X05PSA00005Bxx)
 0-5 bar (X05PSA00005Bxx)
 0-10 bar (X05PSA00010Bxx)
0-100 bar (X05PSA00100Bxx)
 0-160 bar (X05PSA00160Bxx)
 0-15 psi (X05PSA00015P18)
 0-50 psi abs (X05PSA00050P18A)
 0-50 psi (X05PSA00050P18)
 0-150 psi (X05PSA00150P18)
 0-300 psi (X05PSA00300P18)
 0-2000 psi (X05PSA02000P18)
 0 to 4 absolute bar (X05SNP31004A)
 0-10 bar (X05SNP31010R)
 0-100 bar (X05SNP31100R)
 0-160 bar (X05SNP31160R)
 0-160 psi (X05SNP31160R)
 VDO 0-2 bar
 VDO 0-5 bar
 VDO 0-10 bar
 MSI 0-100 psi
 MSI 0-150 psi
 MSI 0-2000 psi
 Bosch 5e0 0-250 bar
 Kavlico 0-50 psi
 Kavlico 0-500 psi
 GM 0-3 bar
 KA0-100 bar
 KA0-150 psi
 KA0-500 psi
 KA0-3000 psi
 PRESS 0-140 bar
 PRS 831 0-50 psi abs
 PRS 832 0-15 psi
 PRS 834 0-50 psi
 PRS 837 0-150 psi
 PRS 838 0-300 psi
 PRS 839 0-2000 psi
 Variohm 0-4 bar abs (X05SNP31050)
 Variohm 0-10 bar -150psi MSI (X05SNP13441)
 Variohm 0-100 bar (X05SNB0100)
 Variohm 0-160 bar (X05SNP13520)

Analog CAN Converter (ACC)

Selecting the Proper Sensors

More Complete Data Analysis

A Full Package



Analog CAN Converter (ACC)

More Complete Data Analysis

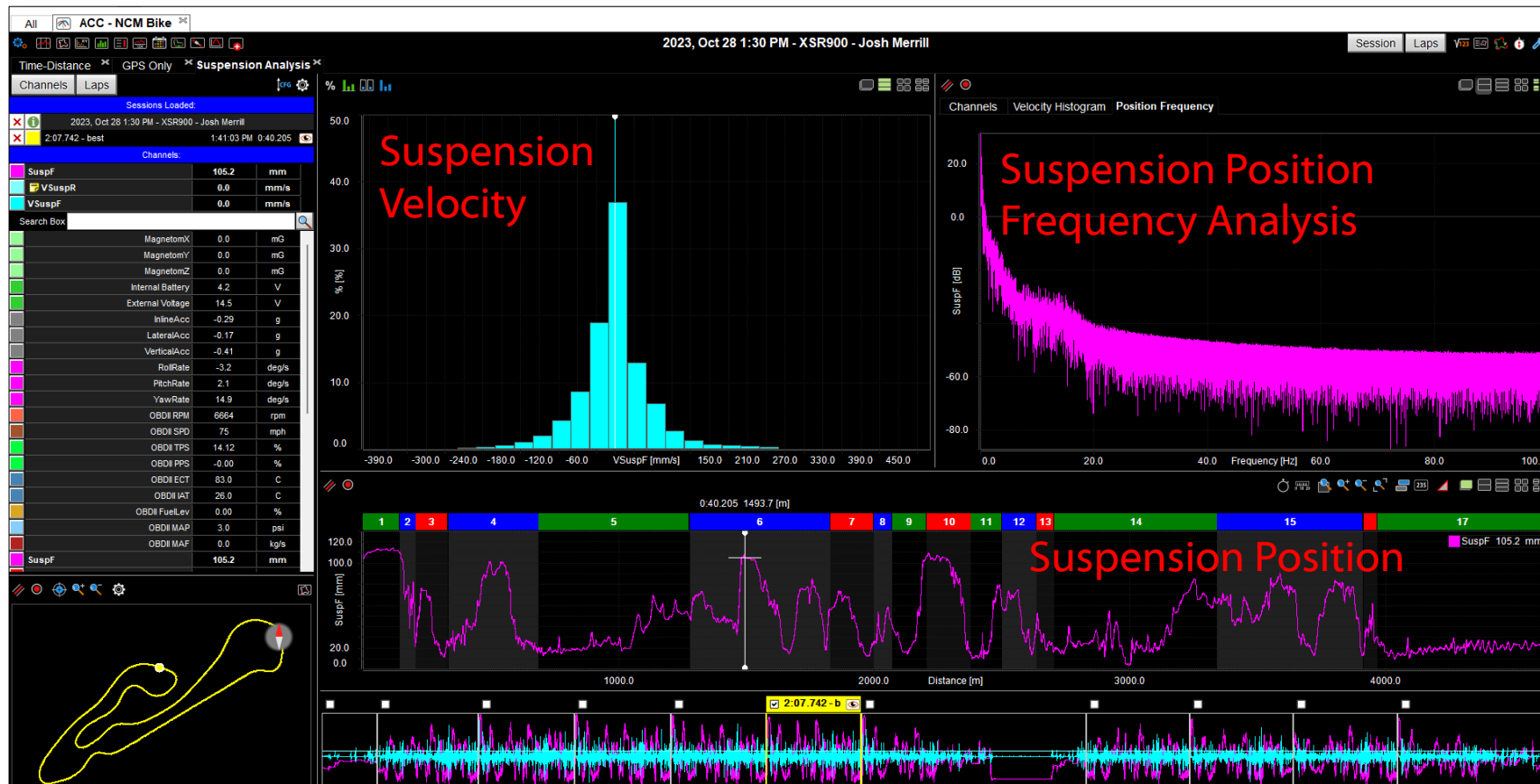
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More Complete Data Analysis

Suspension Analysis – Soon Unlocked



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More Complete Data Analysis

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We Have Answers!
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LearnFast™ E-Training Videos



Currently **230** Videos and Growing

YouTube www.youtube.com/aimdata

#4-10
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If You Have Questions

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We Have Answers!
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#164

All Systems Go!
Properly Preparing for a Big Event

Host:
Roger Caddell
AIM Sports - National Training Manager

Co-Host:
Matt Romanowski
AIM Sports

aimsports.com
Tuesday September 26th, 2023
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Webinar Series
Bringing Data Support and Training to You

Data Download Options
In Race Studio 3

March 31st, 2020

www.aimsports.com
1.800.718.9090

- All New 2020 - 23 Live Webinar Videos
 - Software Updates with Race Studio 3
 - Pre-Calculated Gear Position Function
 - Configuring WiFi Communication
 - Customizing AiM Device Logos
 - Race Studio 3 Basic Configuration - Part 1
 - Race Studio 3 Basic Configuration - Part 2
 - **I Have Downloaded my Data, Now What - Part 1*
 - **I Have Downloaded my Data, Now What - Part 2*
 - GPS Lap Insert
 - Selection Criteria
 - Data Views
 - Sensor Calibration
 - Measure Units
 - Conditional Alarms
 - Sort Channels
 - Gear Position
 - Test Properties
 - Firmware Update
 - Per Lap Color
 - Solo Configuration
 - Export Tests
 - Transmit Tracks
 - Channel Reports
 - Gps Manager Overview
 - Setting Time
 - New GPS Track
 - Track Mapping
 - Webinars
- * Most Popular and Recommended*

Additional Materials

LearnFast™ E-Training Videos

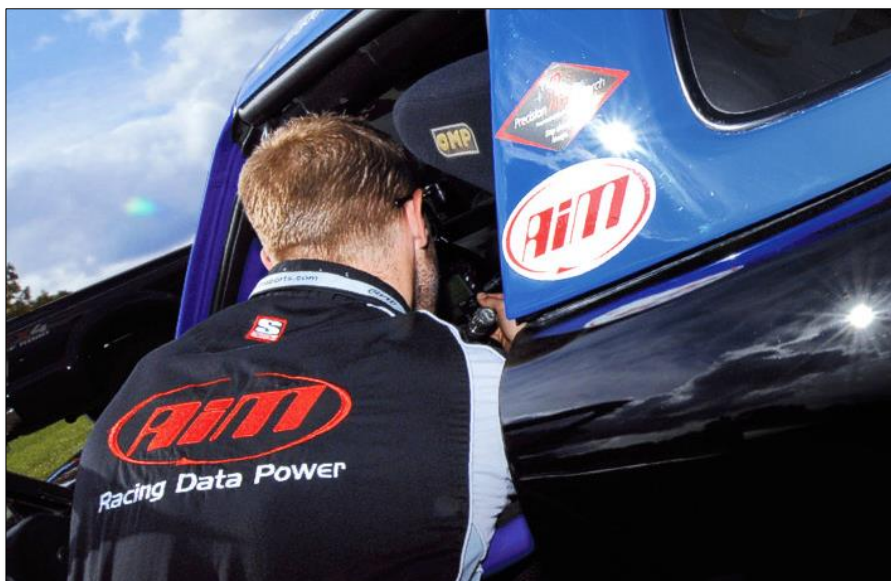
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Customer Support



AiM Sports Technical Support Staff Regularly
Attend Races and Other Events

Look For Us At An Event Near You
Or Call Us At **800.718.9090**



Customer Support

At An Event Near You!

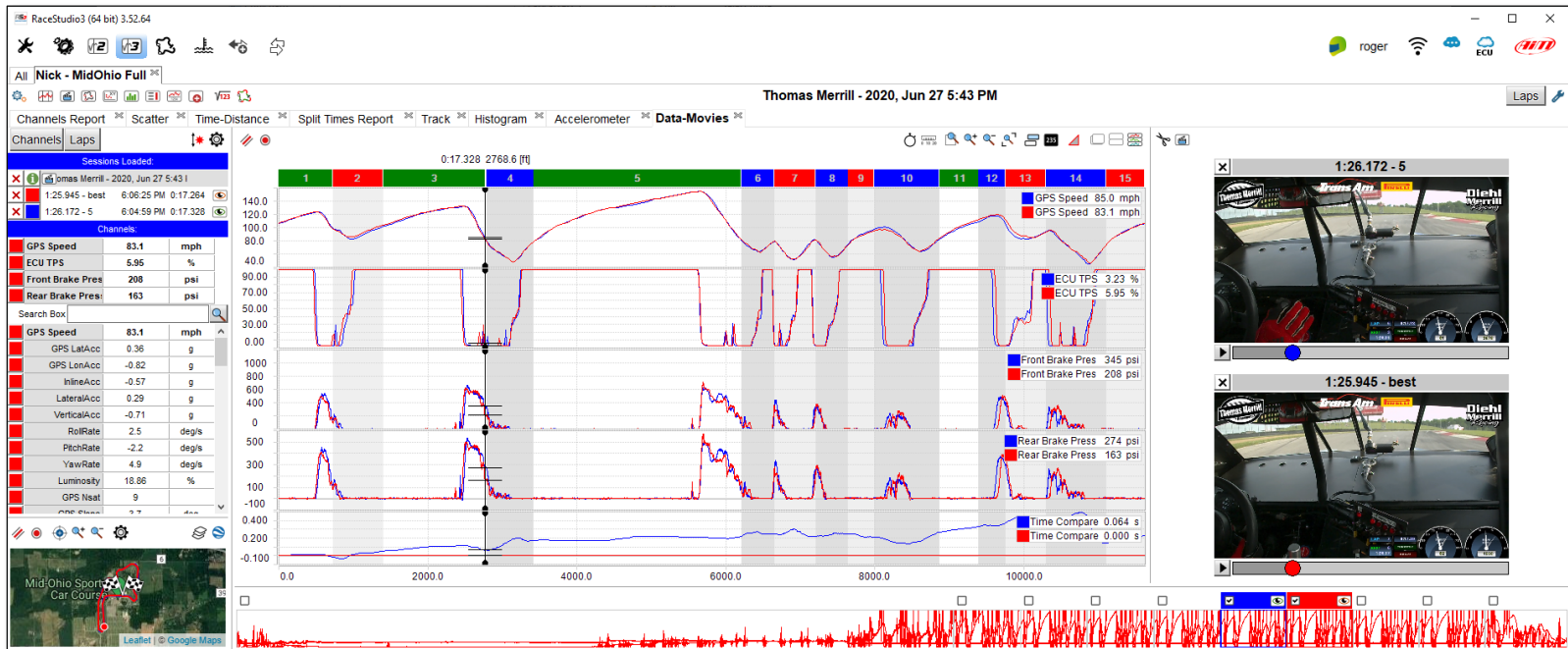
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Next AiM Sports Webinar

Nov 28th, 2023 – Last Tuesday of Each Month



Host:
Roger Caddell

AiM Sports - National Training Manager

Co-Host:
TBD
TBD

Next Webinar: Tuesday November 28th, 2023 - 10:00am Pac/1:00pm East

Next Webinar

Last Tuesday of Each Month

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Contact Information

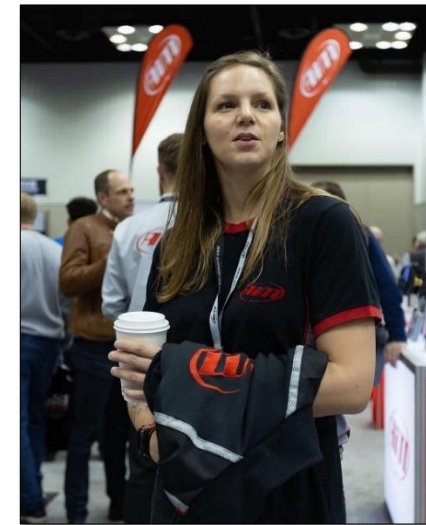
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Tuesday October 31st, 2023

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