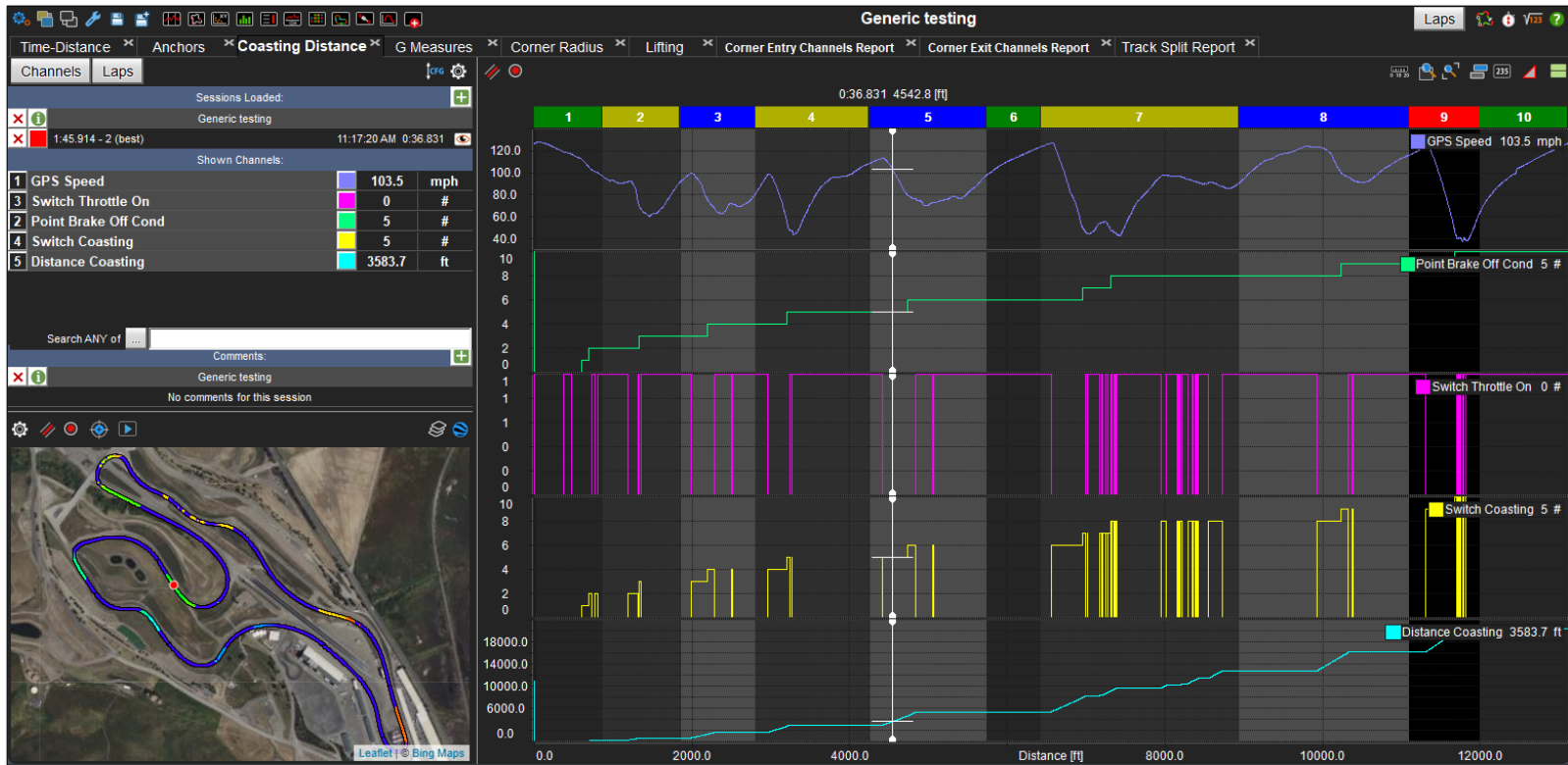


Detailed Corner Analysis

Using New & Better Math Channels



Host:
Roger Caddell
AiM Sports - National Training Manager

Co-Host:
Ray Phillips
Precision Driving Analytics - Owner



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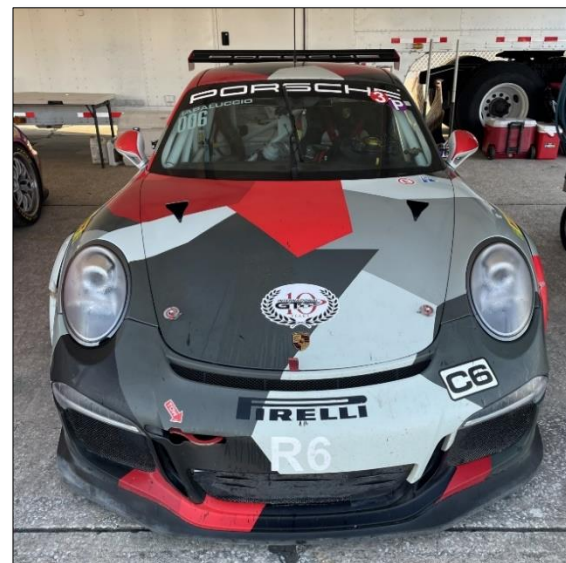
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Ray Phillips

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- Owner of Precision Driving Analytics
- Involved in Motorsports for 30 Years
- Driver for 18 Years
- Data Engineer for 2019 Ferrari Challenge Championship Team
- 8 Time AiM Sports LearnFast Webinar Co-Host!



Ray Phillips

Precision Driving Analytics

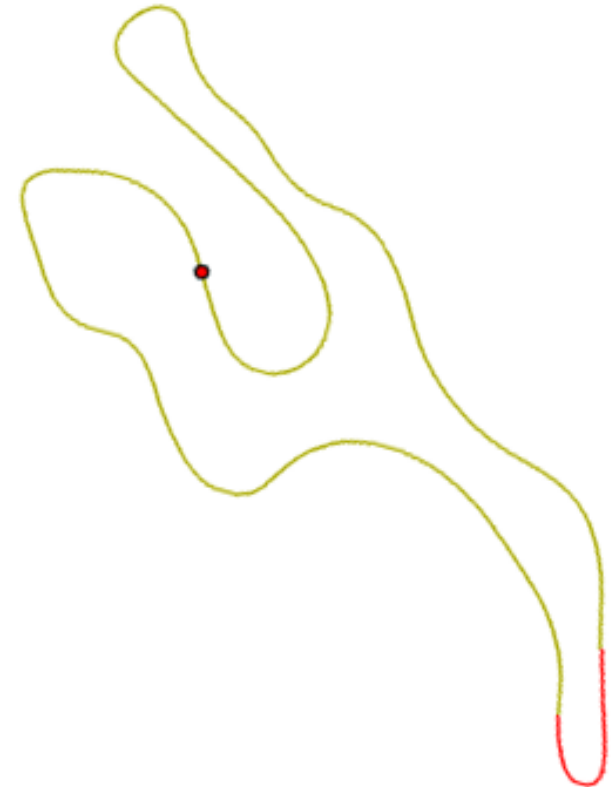


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Goals Of The Analysis

- Corner Segment Time
- Max Speed before Brake Application
- Minimum Speed in Corner
- Average Speed before Throttle Application
- Average Speed after End of Braking
- Coasting Distance after End of Braking Point
- Max Exit Speed
- Max Braking g's
- Cumulative Lateral g's in Segment
- Cumulative Acceleration g's Exiting Segment
- Minimum Corner Radius
- Lifting Count



Detailed Corner Analysis

Goals of the Analysis

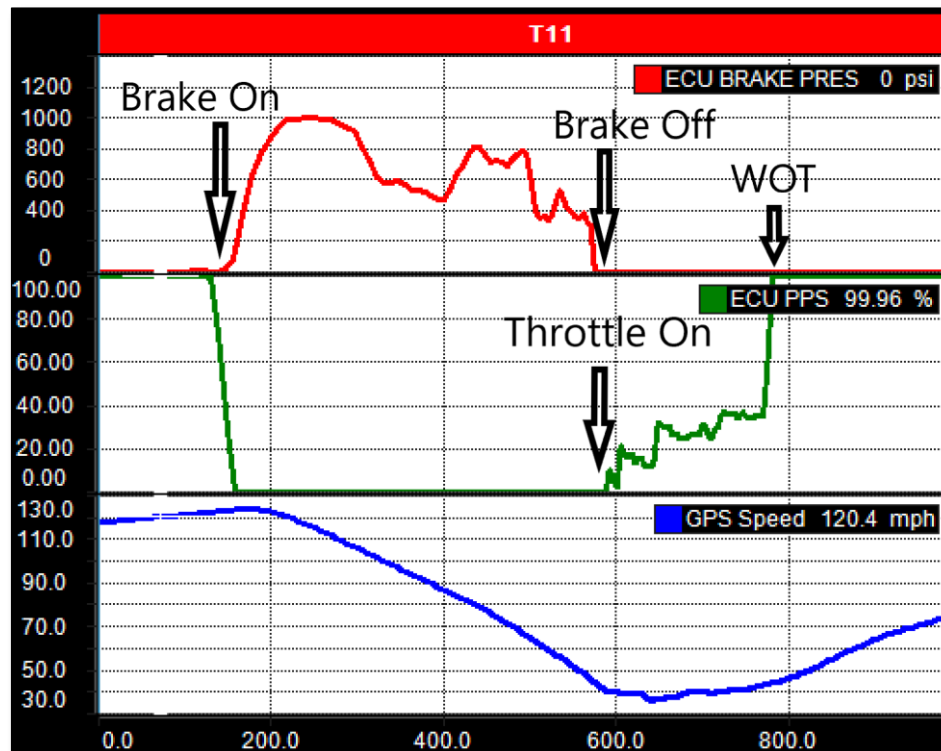


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Where To Start?

- Create Switches for Channels. Switches will either be ON (1) or OFF (0)
- Use the Switches to Create Points using the Lap Edge Counter Function
- Use Distance Math Channel when Necessary



Detailed Corner Analysis

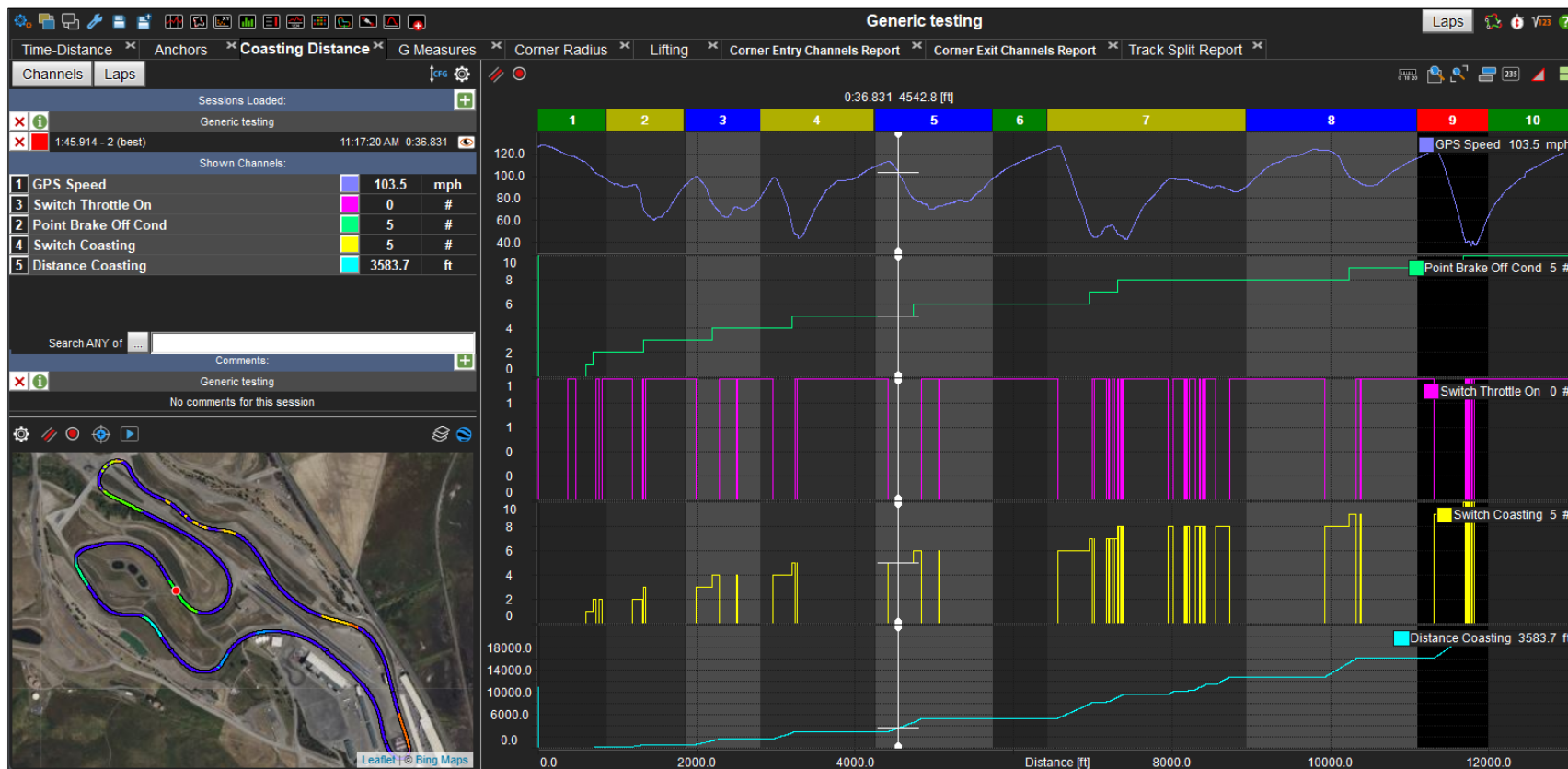
Where To Start?

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Math Functions That Are Used

- Various Arithmetic Functions such as `==`, `>=`, `<=`, etc.
- `NOT(Condition)` Inverts a condition, so it outputs 1 if the condition is zero, 0 otherwise
- `GT(Greater, than)` Outputs 1 if the channel value is greater than, a specific value, 0 otherwise. Also `">"`
- `EQ(Equal, to)` Outputs 1 if the channel value matches a specific value, 0 otherwise. Also `"="`
- `LT(Lower, than)` Outputs 1 if the channel value is lower than, a specific value, 0 otherwise. Also `"<"`
- `LAP_INTEG(ChanOrVal)` Integral, with its value resetting at start/finish line crossing
- `DERIV(ChanOrVal)` Derivative
- `EDGE_COUNTER(ConditionChannel, RisingOrFallingOrBoth)` Counts (and accumulates) the times you have an edge in a channel. The edge can be: Rising, Falling or Both
- `COND_VALID_AT_LEAST(ConditionChannel, TrueOrFalse, AtLeast, InLen)`
This function outputs 1 if the given condition is true (you can also choose false) for at least a given number of samples in a given samples number, say 2 samples in 5 total samples
- `LOW_PASS(ChanOrVal, HighThreshold)` A function meant to trim (or limit) the value of a input channel to specific threshold values. `LOW_PASS` features an upper limit. Also available in `HIGH_PASS` and `BOTH`

Live Race Studio 3 Demo



Race Studio 3 - Updates

Live Race Studio 3 Demo

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LearnFast™ E-Training Videos



Currently **248** Videos and Growing

YouTube www.youtube.com/aimdata

Detailed Corner Analysis
Using New & Better Math Channels

Host:
Roger Caddell
AIM Sports - National Training Manager

Co-Host:
Ray Phillips
Precision Driving Analytics - Owner

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- All New 2020 - 24 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*

Race Studio 3 - Updates!
New Functions and Enhancements

Host:
Roger Caddell
AIM Sports - National Training Manager

Co-Host:
Emiliano Bina
AIM Sports - National Training Manager

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Webinar Series
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Data Download Options
In Race Studio 3

March 31st, 2020

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Additional Materials

LearnFast™ E-Training Videos

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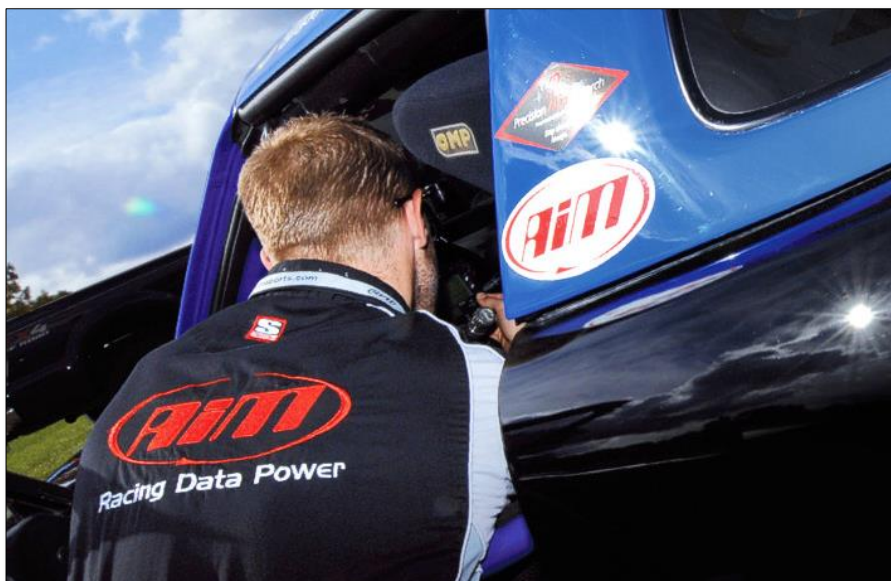
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Customer Support



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!

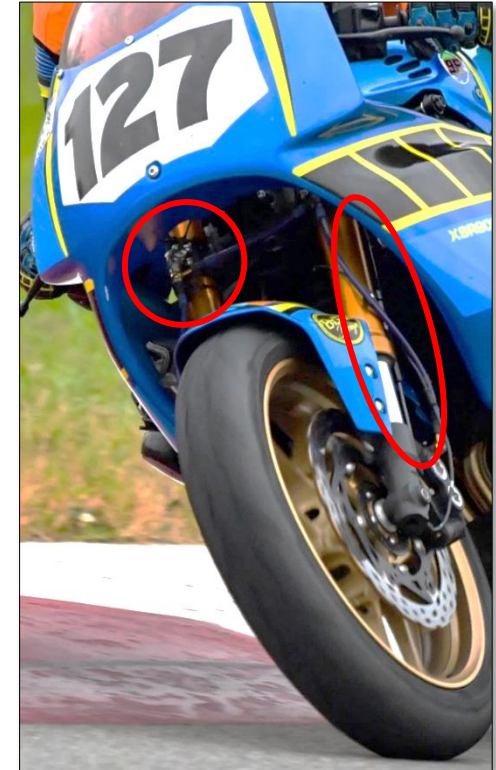
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Next AiM Sports Webinar

Tuesday, August 27th, 2024 – 10am Pac / 1pm East



Roger Caddell

AiM Sports - National Training Manager

Chloé Lerin

MotoAmerica Data Engineer

Next Webinar

2nd & Last Tuesday of Each Month



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