

Professional Experience

Test Engineer

Employer	Time
Applied Technical Services Corp.	January 2020 -
<ul style="list-style-type: none">• Test Engineer responsible for production of cutting-edge VR Hardware• Responsible for defining test specifications, carrying out tests, and providing detailed data-analysis and recommendations to key project stakeholders.• Manage Test program deployment pipeline and coordinate deployment and validation of Test Builds.• Implemented agile workflow internal to Test-Engineering department• Developed, Supported, and Implemented in-house data-analysis tools for Engineering Team	

Software Engineer

Employer	Time
HH Development Limited	January 2019 - May 2019
<ul style="list-style-type: none">• Develop Software for Motorsport Data Management in an Agile Development environment<ul style="list-style-type: none">◦ Microsoft .NET Development Environment for Desktop, Web, and Mobile Applications• Customer Support and Liason - including remote trackside support of tests and races.<ul style="list-style-type: none">◦ Diagnose and Triage software and setup issues.• Main Roles: Software Development, Internal Product Testing, Customer Support	

Race Engineer

Roles	Employer	Location	Time
Assistant Race Engineer	Meyer Shank Racing (IndyCar and IMSA (NSX GT3))	Columbus, OH	November 2017 - November 2018
Control Systems and Performance Engineer	Freelance Engineer (Sole Trader)	Oxford, United Kingdom	December 2015 - October 2017
<ul style="list-style-type: none">• Coordinate performance goals with key stakeholders: Technical Director, Race Engineer, Drivers, Team Owners• Conduct EDA and Deep-Dive Data Analyses and report on Vehicle and Driver Performance• Develop Engineering-Analysis worksheets and tools• Maintain Event Reports and Technical documentation• Responsible for Data Integrity, Systems Configuration			

Client Summary

Teams	Cars	Championships	Season
Audi Sport Customer Racing	Audi R8 GT3	Blancpain GT	2017 (Spa 24h)
Tockwith Motorsport	Ligier JSP217 LMP2	European Le Mans Series + Le Mans 24h + Selected World Endurance Championship Rounds	2017
Gruppe M Racing	Mercedes AMG GT3	Blancpain GT Asia (2017 Champions)	2017
Private Testing	Euroformula F3	Euroformula F3	2017
Greaves Motorsport	Gibson G15 LMP2 / Ligier JSP2 LMP2	European Le Mans Series (2015 Champions) + Le Mans 24h	2015-2016

Additional Engineering & Motorsport Roles and Qualifications

Role	Employer	Time
Junior Performance Engineer	Greaves Motosport	June 2015 – January 2016
Design Engineer (Summer Placement)	Greaves 3D Engineering	June 2015- September 2015
Junior Tyre Technician	Rebellion Racing	June 2015 (24H Le Mans)
Fireman & Apprentice	Rebellion Racing	March 2013 (Sebring 12H)
Data Analyst and Track Support	BMW Club Racing	2011-2013
Junior Mechanic and Track Support	Korman Autoworks	2009-2013

Supplemental Qualifications

Optimum G Applied Vehicle Dynamics	Birmingham, UK	January 2017
Optimum G Data Driven Performance Engineering	Birmingham, UK	January 2017
MIA Winter School of Race Engineering	Oxford, UK	December 2012

Other Work Experience

Employer	Role	Location	Time
Arc'Teryx Seattle	Product Guide	Seattle, WA	September 2019 - December 2019
Blue Force Technology	Composite Manufacturing Apprentice	Durham, NC	2012-2013

Education

BEng Motorsport Engineering

Oxford Brookes University Oxford, United Kingdom September 2013- December 2017

Industry-Relevant Work

"Stability and Control Analysis of a LMP2 Sportscar Prototype" (Collaboration with Greaves Motorsport)

"Design Study: LMP2 Coupe Front Suspension" (Collaboration with Gibson/Zytek Motorsport)

"Development of a 4-DOF Bicycle-Car Model to Analyse High-Downforce Sportscar Prototypes using a State-Space approach"

"Quasi-Steady State Laptime Simulation in MATLAB"

Associates of Science (Motorsport Technology)

Forsyth Technical Community College Winston-Salem, NC September 2011- May 2013

Select Technical Skills

- (Expert) Data Acquisition, Telemetry, and Data Analysis (PI Toolbox, MOTEC, MATLAB, Bespoke Tools)
- (Expert) Motorsport Control Systems and Configuration (MOTEC, PI Toolset, Bosch)
- (Advanced) Motorsport Strategy, and Analysis Tool Development
- (Advanced) Vehicle Dynamics and Simulation - Including Multibody simulation development
- (Advanced) Network Administration, Computer Setup/Build, General Technology Fluency
- (Intermediate) Git, Database/Data Engineering, AGILE Development Processes
- Technical Reporting and Documentation
- Engineering and Project Management (Traditional + AGILE Workflows)

References

References Available upon [request](#)