# [Corbin Heist](http://corbinheist.com/)

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## Professional Experience

### Engineer: Test and Electronics

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| Employer | Time |
| Applied Technical Services Corp. | January 2020 - |

* Test Engineer in industry leading VR Hardware in $35m Facility
* Responsible for defining test specifications, carrying out experiments, and providing detailed data-analysis and recommendations to key project stakeholders.
* Manage Test program deployment, validation, and Process Control of Test Builds.
* Developed, Supported, and Implemented in-house data-analysis using Jupyter Notebooks and SQL
  + Automated Engineering Paretos & Reports
* ETL Engineering Data; Responsible for Validating Engineering Data.
* Identify and Drive Improvements in Metrics/KPI's to improve performance (RTY, 1st pass yield)
* Coordinate Engineering Test Workload with team of Engineering Technicians.
* Identify Non-Conforming Product and determine Root Causes.

### Engineer: Software Test and Support

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| Employer | Time |
| HH Development Limited | January 2019 - May 2019 |

* Software Development and Testing for Motorsport Data Management Application
* Customer Support and Liason - including remote trackside support of tests and races.
* Main Roles: Software Development, Internal Product Testing, Customer Support

### Engineer: Motorsport

* Trackside, Race, Performance, and Data Engineer for National and International-level motorsports.
* 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 and KPI Reports and Technical documentation
* Responsible for On-Car Systems: Data Integrity, Configuration, Implementation

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| Roles | Employer | Location | Time |
| Race Engineer | Meyer Shank Racing (IndyCar and IMSA (NSX GT3)) | Columbus, OH | November 2017 - November 2018 |
| Control Systems, Performance, Strategy Engineer | Freelance/Contract\* | Oxford, United Kingdom | December 2015 - October 2017 |

*\*Selected Clients: Greaves Motorsport, Meyer-Shank Racing, Audi Sport Customer Racing*

*\*Selected Series: World Endurance Championship, European Le Mans Championship, Blancpain GT*

### Additional Engineering Roles & Qualifications

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| Role | Employer | Time |
| Junior Performance Engineer | Greaves Motosport | ELMS 2015 |
| Design Engineer (Summer Placement) | Greaves 3D Engineering | Summer 2015 |
| Blue Force Technology | Composite Manufacturing Apprentice | 2012-2013 |
| 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 |

## Education

### BEng Motorsport Engineering

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

Industry-Relevant Papers:

* “Stability and Control Analysis of a LMP2 Sportscar Prototype” (with Greaves Motorsport)
* “Design Study: LMP2 Coupe Front Suspension" (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)

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

## Select Technical Skills

* Python
* Skill
* Skill
* Skill
* Skill
* skill

## References

References Available upon [request](mailto:contact@corbinheist.com)