

**Job Description**

|  |  |
| --- | --- |
| **Date:** 1/8/2020 | **Job Title:** EFI Trackside Engineer |
| **Supervisor:** Scott Matas | **Department:** Development |
|  |
| **Purpose of Job** *(Briefly state the primary purpose and responsibilities of the job.)* |
| Oversee NASCAR Cup engine application of Roush Yates powered racecars, ensuring optimum performance and reliability. |
| **Responsibilities** *(List five to eight major job functions, duties, tasks and accountabilities which must be completed in achieving the objectives of the position.)* |
| * Optimize, produce, implement, manage all production engine calibrations at chassis dyno, race events and track testing.
* Interface and support crew chiefs, team engineers, and tuners before, during and after the race weekend to achieve optimum engine and racecar performance.
* Manage NASCAR spec ECU software via updates, calibration changes, validation and implementation.
* Analyze engine data, operating conditions and calibration adjustments to ensure optimum at-track performance and reliability.
* Facilitate troubleshooting engine and EFI system issues during the race weekends, and track tests.
* Compile, analyze and summarize ECU engine data post-race each week.
* Support pre-race chassis dyno sessions.
* Contribute to department EFI procedures and documentation with the aim of improved accuracy and efficiency.
* Develop and implement new software tools as needed for data processing, and calibration.
 |
| **Job Qualifications** *(List the minimum education, formal training, skills, and experience required to perform the job.)* |
| * A bachelor’s degree in mechanical or electrical engineering with 0-3 years of relevant work experience
* Strong knowledge of internal combustion engine fundamentals
* Ability to work effectively in a fast-paced, high pressure environment
* Experience with professional engine control systems, hardware and software
* Experience with data acquisition systems
* Ability to work effectively in a small group of focused and talented engineers
* High level of computer literacy, especially advanced use of Excel
* Good verbal and written communication skills (ability to describe issues in a clear and concise manner)

**Desired:*** Experience with McLaren software (System Monitor and ATLAS)
* VBA/C/C++ or similar coding experience
 |
| **Position Requirements***(List any specific requirements such as repetitive lifting, bending or stooping, prolonged period of standing, frequent travel as a driver and/or passenger, required licenses/certification, etc.)* |
| * Travel to all NASCAR cup race and test events as required
* Non-standard working hours as required by the NASCAR event schedule
* Ability to pass a NASCAR drug test at any time
 |
| **Equipment Used** *(List any specific equipment used for this position.)* |
| * McLaren System Monitor
* McLaren Atlas
* Microsoft Office
* VBA
 |

|  |
| --- |
| **FOR HR USE ONLY:** |
| Job Code: |
| Job Grade: |
| [ ]  Exempt [ ]  Non-Exempt |