

David Longman
10104 Pineshadow Dr. Apt 108
Charlotte, NC 28262 USA
(305)790-5473
Mrbanshee@yahoo.com

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Dear Sir or Madam,

I am a mechanical engineering student in the concentration of motorsports and pursuing a dual degree in physics and math minor at the University of North Carolina at Charlotte. Over the past several years, I have combined my studies with real world experience to broaden my education in the field of race engineering. I am currently looking for a 2009 summer internship in the field of vehicle dynamics and race engineering.

As my resume shows, I worked with Primetime Race Group, an American Le Mans series team to help prepare their GT2 Dodge Viper for the 12 hours of Sebring and the IMSA lites DP02 car. That preparation included chassis setup, vehicle simulation and data acquisition. I have also worked with Richard Childress Racing, a NASCAR series team in race engineering. I worked with the 7-post, K & C and wind tunnel teams. I also worked with the drivers and engineers at several track tests. I was the crew chief in the US Touring Car Series with Goji Racing and worked as a data engineer in the Indy Pro Series.

I would like to thank you in advance for considering me as a candidate for future employment. Enclosed is my resume and I am looking forward to hearing from you.

Sincerely,

David Longman

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OBJECTIVE

To obtain a 2009 summer internship in the field of vehicle dynamics and race engineering.

EDUCATION

University of North Carolina at Charlotte

Bachelors of Science in Mechanical Engineering, May 2010

Concentration in Motorsports GPA 3.2/4.0

Formula SAE Team 2005-2008

Dual Major, Bachelors of Science in Physics, May 2009

Minor in Mathematics

RELATED EXPERIENCE

Primetime Race Group, American Le Mans Series Team, Hollywood, FL, Mar 2008

- Helped setup Elan DP02 IMSA Lites car and ALMS GT2 Dodge Viper
- Used simulation programs to compare with track and kinematics data
- Worked with drivers and engineers at Sebring to improve vehicle handling

Richard Childress Racing, NASCAR Series Team, Welcome, NC, Jun 2007-Aug 2007

- Helped analyze data from 7-post, K & C, wind tunnel and chassis torsional tests
- Work with the drivers and engineers during Lowe's Cup test and VIR Busch road course test
- Designed and modeled specific parts and helped to complete full car model

Goji Racing, US Touring Car Series Team, Portland, OR, Jul 2006-Oct 2006

- Serve as Crew Chief responsible for the full duties of the race car and team
- Analyze vehicle dynamics data using AIM MXL Pista and Race Studio analysis
- Work with driver to improve driver performance and technical language

Part Sourcing International Racing, Indy Pro Series Team, Indianapolis, IN, Jul 2006

- Was hired as a Data Engineer and used Pi analyzer and Pi Data Buddy
- Displayed data to analyze the appropriate gearing during a draft situation
- Helped calibrate steering and accelerator sensors

PROFESSIONAL DEVELOPMENT

- **Race Car Dynamics and Data Acquisition**
Claude Rouelle seminar sponsored by Motec, Mooresville, NC, Jun 2006
- **Race Engine Calibration for Optimal Performance**
Society of Automotive Engineers, Troy, MI, May 2006
- **Advanced High Performance Electronic Fuel Injection Tuning**
Electronic Fuel Injection University, Wethersfield, CT, Jul 2004
- **High Performance Engine Tuning using Aftermarket Fuel Injection**
Electronic Fuel Injection University, Carrollton, TX, May 2004

INSTRUMENTATION

- Engineering Software: MATLAB, C++, Maple, Mathematica, Pro-Engineer and SolidWorks
- Data Acquisition Systems: Pi, AIM, Motec, and CDS
- Engine Management Systems: Motec, Haltech, and Honda
- Vehicle Simulation: Bosch LapSim, Suspension Analyzer, Dynomation, Fastlap and DragSim