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## Overview

MotoZero Racing is a team consisting of a group of engineers and enthusiasts with many specialties from mechanical engineering, batteries, motors, to race prep and aerodynamics and of course riding motorcycles. Some of the accolades for electric racing are,

- 1<sup>st</sup> and 5<sup>th</sup> in the first US Electric Motorcycle Roadrace TTXGP May 15<sup>th</sup> 2010
- 1<sup>st</sup> in the 2010 ReFuel race at Laguna Seca
- 1st at the San Francisco Electric bicycle hill climb event
- 1st in the inaugural TTX75 class held at Infineon raceway May 2011
- 1<sup>st</sup> 2<sup>nd</sup> and 3<sup>rd</sup> in the first ever production based electric eSuperstock class ever held as well as all three spots on the podium for the 2012 Infineon TTXGP race

Electric Motorcycle racing allows our team to race the product that we have been working on for the past four years, designing and building production based electric motorcycles at Zero Motorcycles. MotoZero Racing has two motorcycles to contest and we will continue to leverage our design skills and the technology available to develop these two bikes. One is very similar to a production Zero S with some minor modifications for racing. We will increase the battery size and are currently working on a motor to provide the power required for racing. The suspension and chassis setup will be provided by AfterShocks Suspension. The second bike is a Yamaha YZF-R1 bike that has been stripped of its combustion motor and equipped with an AC induction motor, controller, and battery.



This opportunity offers the possibility to explore new technology that may work its way into the motorcycles that the team designs on a daily basis. Racing breeds better technology, excellent camaraderie and pushes riders and engineers to their limits.

For 2012 our primary focus is on promoting the eSuperstock class. This class is the first electric production based stock class in history. We will be riding 2012 Zero Motorcycles S model bikes that will have very few modifications from the way they come from the factory. We will tune the suspension, put race tires on these bikes and a kill switch for racing safety. In the first race held this year we generated a lot of interest by running 4 of these bikes in this class and finished 1<sup>st</sup> 2<sup>nd</sup> and 3<sup>rd</sup> both in the eSuperstock class as well as overall in points.

As you will see in the following pages we have assembled a team of experts in both racing and electric vehicles. We believe we have put together the ingredients we need to be successful in this emerging contest of electric powered racing. We are looking for companies to provide the remaining ingredients it takes to keep a team of this caliber running smoothly and that want to be a part of this winning combination. Contributing organizations will enjoy being a part of a team that has a professional presence in the pits, in the motorcycling community, and throughout the industry.



## Rider Profile



**Name:** Kenyon Kluge, 2001 AFM 750 Production Champion

**AFM #:** 96

**AMA #:** Superbike 198, SS 198

**Age:** 38

**Date of birth:** November 22, 1973

**Birthplace:** Los Angeles, CA

**Height & weight:** 5' 9"; 170 pounds

**Hometown:** Santa Cruz, California

**Hobbies:** Dirt biking, rock-climbing, mountain biking, and surfing

**Race Bike:** Suzuki GSXR 600, Zero Motorcycles S

**AFM race classes:** 600 Superbike, 600 Production

**TTXGP Entrant**

**EPower Entrant**

## History and Goals

I was introduced to motorcycle racing in 1997. I got my license and started competing in the American Federation of Motorcyclist racing league. This was the beginning of the long road of learning and mastering the many aspects of road racing.

I rode for a few race teams before starting my own team, K<sup>2</sup> Racing. With K<sup>2</sup> Racing I have had many accomplishments including, 2001 AFM 750 Production champion, ranked 15<sup>th</sup> in AMA Formula Xtreme 2002 championship, 4<sup>th</sup> in AFM 450 Superbike 2005 championship, 2008 US Cycling Sport Class National DH champion, 5<sup>th</sup> in the first US Electric Motorcycle Roadrace, TTXGP, 1<sup>st</sup> in the 2010 ReFuel race at Laguna Seca, and first at the inaugural TTX75 at Infineon raceway 2011.

As a rider and team owner I have performed all the duties required to run a professional race team from off season preparations, to recruiting the right talent, to courting sponsors, promoting the team and its sponsors, and organizing every aspect of a race season as well as its events. I have prepared many bikes from "off the show room floor" to race winning machines.

I have also been an electrical engineer for 13 years and have been working in the electric vehicle industry for 3 of those years. Electric motorcycle racing is such a new sport that most of the gains will be made in the technology and in that area I have a deep understanding of what is needed to build a winning bike



from the electrical side to the mechanical side as well as the preparation of the machine. Having this knowledge as well as being the one to ride it give me an edge that other teams or riders may lack.

I believe I have the knowledge, experience, skill, and determination to build a race team that can be dominate.

## **Team**

### **Micah Bayless**

Automotive and Wiring Expert

Micah has been working in the motorsports industry for X years and in the electric vehicle field for 2 years. Micah is an expert at vehicle wiring and interconnect systems.

### **Gabriel DeVault**

General EV Expert

Gabe has been working in the electric vehicle industry for 4 years and has been an enthusiast for X years. Hi skills cover many areas including aerodynamics, predictive analysis, testing, data acquisition, and general mechanics.

### **Nate Knight**

Sr Electrical Engineer and Embedded Systems Expert

Nate is an excellent electrical engineer and specializes in embedded systems. Nate has implemented some very innovative control and safety systems that give us an edge over the other teams.

### **Ryan Biffard**

Electric Motor Expert

Ryan has been working on electric motors for X years and is an all around EV enthusiast. Ryan is designing motors specifically for electric motorcycles giving us the edge of the right size, power, and efficiency.

### **Luke Workman**

Battery Expert

Luke has competed in many electric bicycle events and loves anything that is electric and has two wheels. He is knowledgeable in all aspects of electric vehicles but is truly an expert when it comes to batteries.

Kevin Waggoner

Mechanical engineer and team photographer

Kevin designed and fabricated suspension system for CalSol solar powered race car, mountain bike suspension beta tester for Rock Shox and Fox Racing Shox, in addition to being an outstanding photographer

### **Noah Blum**

R&D Prototype Engineer

Noah is a fabricator and prototype engineer. When we have a challenge that needs solving Noah can whip up a part to do the job.

### **Eland Eggers**

Electrical Engineer and EV Expert

Eland is an electrical engineer who built and contested his own electric motorcycle in the TTXGP. With a two man team he did a great job of building a fast machine.

K Squared Racing and Zero Motorcycles after finishing 5<sup>th</sup> in the first US TTXGP of 2010



K Squared Racing and Zero Motorcycles after winning the first ever eSuperstock race at Infineon raceway 5/6/12



Here are some links to the publicity garnered over the past year.

TTXGP Infineon Race 2012

[http://www.infineonraceway.com/handler.cfm/template\\_photo\\_gallery/cat\\_id,46411?sf\\_id=12624&action=photo#12](http://www.infineonraceway.com/handler.cfm/template_photo_gallery/cat_id,46411?sf_id=12624&action=photo#12)

<http://youtu.be/uBAXXSESPWg>

<http://youtu.be/TNEG5EFIqN8>

<http://youtu.be/1pfwZ8OpE0Q>

<http://www.egrandprix.com/news.php?id=279>

<http://www.egrandprix.com/news.php?id=280>

<http://www.egrandprix.com/news.php?id=275>

<http://www.egrandprix.com/news.php?id=277>

<http://evworld.com/news.cfm?newsid=27881>

<http://green.autoblog.com/2012/05/04/ttxgp-north-america-kicks-off-this-weekend-with-new-esuperstock/>

<http://www.examiner.com/article/ttxgp-2012-north-america-season-opens-at-infineon-raceway>

<http://visforvoltage.org/forum/12297-ttxgp-2012-north-america-season-opens-infineon-raceway>

<http://esbk.co/2012/05/01/the-first-na-ttxgp-race-is-4-days-away-and-its-snowing-in-la-cats-are-sleeping-with-dogs-and-zero-has-4-bikes-showing-up/#more-1114>

<http://green.autoblog.com/2012/05/13/zero-motorcycles-prove-resilient-in-crash-marred-ttxgp-weekend/>

<http://www.zeromotorcycles.com/ttxgp/>

Two television appearances, one on Comcast Sports Center, and the other on ABC news.

Forbes interview - <http://video.forbes.com/fvn/ecotech-10/electric-motorcycle-racing>

Plugbike - <http://plugbike.com/2010/05/10/k-squared-racings-zero-s-ttxgp-bike/>

LA Times - [http://latimesblogs.latimes.com/money\\_co/2010/05/ttxgp-north-america-electric-motorcycle-race-announces-competitors.html](http://latimesblogs.latimes.com/money_co/2010/05/ttxgp-north-america-electric-motorcycle-race-announces-competitors.html)

Press Democrat - <http://www.pressdemocrat.com/article/20100511/ARTICLES/100519897>

These are just a few of the impressions we got racing in 2010.

## **Contact Info**

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