

# Jake Butynski

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## EDUCATION:

Mechanical Engineering B.S. in Honors Program, Colorado State University (GPA 3.9)

August 2010- May 2015

## EXPERIENCE:

### **Chief Engineer- Zeno Moto**

Jan 2022- Present

- Ownership of product requirement specifications for electric motorcycle and battery swap ecosystem
- Ownership of mechanical system design and powertrain/ battery system integration.
- Management of prototype development and field evaluation.

### **Chief Engineer- Buffalo Bicycles**

July 2018- October 2021

- Build, execute and maintain an organization-wide vision for Buffalo Bicycle products that supports the inherent value proposition of the brand.
- Define product development priorities considering variables such as overall product impact, end user value proposition, sales strategy, brand strategy and resource requirements/ availability.
- Sustain a deep understanding of company vision, operating markets, end user needs, product performance, bicycle usage environments and supply chain resources.
- Develop and manage the evolution of a scalable international field test program
- Regularly engaged in detailed design with the New Product Development team to ensure engineering decisions align with business needs, nurture a shared team vision, support trade-off decisions and address threats to product success
- Provide support to Sales, Marketing and Fundraising teams to ensure accuracy and consistency of brand and product messages in external communications
- Based in Kisumu, Kenya for first two years. Travel to Zimbabwe, Zambia, Malawi and China.
- Primary markets include East Africa, Southern Africa and Colombia
- Notable projects include development of novel multispeed drivetrain and integration into redesigned utility and commuter bike offerings. International patents pending.

### **Hydraulic Disc Brake Design Engineer at SRAM LLC.**

June 2015-July 2018

- Design of bicycle hydraulic disc brake systems for road, mountain, and electric bike applications.
- Shepherding of product through LPD process including proof of concept prototyping, pilot builds, qualification testing, field testing and production ramp-up.
- Model complex parts and assemblies in CAD working closely with Industrial Design team.
- Conduct pre-development research of new technologies, processes and materials including significant design of experiments and prototype testing to understand potential application and benefits including, but not limited to, cost reduction, performance.
- Perform preliminary lab testing to better understand deltas, performance and competitive landscape.
- Work closely with Taiwan team (product, manufacturing and finish engineers) to convey product expectations and review design for manufacturing. Frequent Taiwan trips to visit internal and external suppliers to understand manufacturing limitations and ensure quality can be sufficiently monitored and controlled.
- Perform tolerance analysis as well as structural and thermal finite element analysis to validate geometry.
- Develop drawings that adopt modern geometric dimensioning and tolerancing best practices to convey product function. Significant review of drawing callouts with suppliers and metrology department to ensure alignment.
- Ride testing, test trips and significant hands-on time reviewing field samples.
- Develop new test procedures and specifications to evaluate product performance
- Notable projects include MY18 [Code](#) (R, RS, RSC, ULT), [Level](#) TL, and MY20 [G2](#) brakes

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## **Intern in solar design and project management at PureLogic Clean Energy Systems**

September 2013-June 2014

- Assisted in design, installation and repair of PV systems for commercial and residential use

## **Intern in design and prototyping at RideKick International**

February 2013-September 2013

- Design, prototyping, cost analysis and testing for frame development project.

## **Project manager at Mpala Research Center, Kenya**

July 2012-Dec 2012

- Managed four projects for Professor Kelly Caylor, hydrology department at Princeton University
- System design, fabrication, installation and monitoring of stream flow sensors and permanent deployment structures at three sites in the Ewaso Nyiro watershed.

## **Intern in design and prototyping at RunAbout Cycles Inc.**

March 2011-Dec 2012

- Designed and prototyped various components and systems for custom-build human powered/electric hybrid vehicles, solar charging systems and efficiency testing fixtures.
- Electric bike sales. (Brands: [Stromer](#), [A2B](#), [Pedego](#))

### **KEY SKILLS:**

- Implementation and management of international field test programs
- Component and system specification, integration and sourcing from foreign suppliers
- Component and system testing, competitor analysis
- Lean product development principles and practices
- Manufacturing processes and design for manufacturing
- Strong understanding of bicycle, E-bike and E-motorcycle systems
- Creo Parametric 3.0, Creo Simulate, PTC Windchill, Geomagic Control, Minitab, GOMinspect, Tableau
- Advanced GD&T application and imbedded CAD model annotation
- Additive manufacturing, 3D scanning and inspection data interpretation, TIG welding, machining, general prototyping, mechatronics system development
- Fluent in Swahili

### **OTHER NOTABLE WORK:**

- Personal design patent [USD763593S1](#) -Protection of Portable, freestanding hammock stand form

### **HONORS AND AWARDS:**

- Honors Outstanding Student Scholarship (Colorado State University)
- Boeing Scholarship
- Presidential Scholarship (Colorado State University)
- Honors Scholarship (Colorado State University)

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## REFERENCES:

**Michael Spencer**- CEO at Zeno Moto

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**Chris Raymo**- Product Development Team Lead at World Bicycle Relief

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**Andy Samways**- VP of Product Development at World Bicycle Relief

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**Chris Isherwood**- Mountain Bike Brakes Team Lead at SRAM LLC

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