



# LIGHTNING MOTORCYCLES

Performance | Innovation | Technology





GARMIN

212

# CONTENTS

SECTION I

COMPANY OVERVIEW

3

SECTION II

BRAND ROADMAP

6

SECTION III

INNOVATION THROUGH  
COMPETITION

15

SECTION IV

LIGHTNING + CBMM  
PARTNERSHIP

19



SECTION I  
COMPANY  
OVERVIEW

# Lightning Motorcycles Mission Statement

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*Lightning's mission is to build advanced two-wheel electric transportation with superior efficiency, performance and affordability than current gasoline alternatives.*



Ride the Future

# Company Overview

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COMPANY	Creator and innovator of the world's most advanced electric motorcycles
HISTORY	Founded in 2009 and built the world's first lithium battery sportbike
LOCATIONS	San Jose, CA   Silicon Valley Global Headquarters + R&D Zhejiang, China   Parts Production Facility
ACHIEVEMENTS	Producer of LS-218 - the fastest production motorcycle in the world Set land speed record of 218 mph at Bonneville Won 1st Place Overall at Pikes Peak International Hill Climb
MANAGEMENT	Executive team and advisory board with Silicon Valley backgrounds from Tesla, Apple, Google, Pixar, eBay, HP, Dell, Cisco, Texas Instruments, Alta Motors, Vectrix





SECTION II  
BRAND ROADMAP

# Roadmap to Building a Premium Global Motorcycle Brand

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## Develop the Best Technology in the World

Engineer the highest performance electric motorcycle platform

Build the fastest production motorcycle in the world

Earn industry credibility based on world-class innovation

## Prove our Technology through Competition

Set Land Speed Record of 218 mph

1st Place Overall at Pikes Peak International Hill Climb

Generate global awareness and media exposure

## Produce the Highest Quality Products for the Lowest Cost

Rapidly drive down technology cost

Develop new products in mainstream rider segments

Build global community of Lightning owners and enthusiasts

# Silicon Valley Approach to Bringing Innovative EV Technology to the Mainstream

## Lightning's Product Roadmap Similar to Tesla

STAGE 1  
High Price  
Low Volume  
Launched 2008

Tesla Roadster



\$109,000  
0-60 mph 3.7 sec  
245 miles range

STAGE 2  
Mid price  
Mid volume  
Launched 2012-15

Tesla Model S + Model X



\$70,000  
0-60 mph 4.2 sec  
240 miles range

STAGE 3  
Low Price  
High volume  
Launched 2016

Tesla Model 3



\$35,000  
0-60 mph 5.2 sec  
220 miles range

# Expansion of Lightning Brand Lineup



**STAGE 1**  
Low Volume  
High Price  
In Production

**LS-218**  
Superbike



\$38,888  
218 mph  
100-150 mi range

**STAGE 2**  
Mid Volume  
Mid Price  
Launching March 2019

**STRIKE**  
Platform



\$12,998 Starting Price  
150 mph  
150 mi range

**STAGE 3**  
High Volume  
Low Price  
Launching Late 2019

**SPARK**



Planned  
announcement late  
2019

# Lightning LS-218 Halo Product

LS-  
218

LAND SPEED RECORD  
218 MPH

The Fastest Production Motorcycle in the World



RIDE THE FUTURE



# Lightning LS-218 Superbike

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## Ultra High Performance Electric Motorcycle

The fastest production motorcycle in the world with top speed of 218 mph

All electric powertrain  
220 horsepower  
200+ lb-ft torque

Designed, engineered and produced in Silicon Valley California



# Widespread Global Top-Tier Media Coverage



The New York Times

Forbes



MOTORCYCLE.COM



*"The acceleration is just unbelievable. I've opened the throttle on plenty of open-class superbikes, but nothing throws you into the future like this thing. Nothing"*

- Loz Blain, New Altas

# Widespread Global Top-Tier Media Coverage

Lightning Product Reviews in Global Print and Online Publications in 70+ countries





SECTION III  
INNOVATION THROUGH  
COMPETITION

# Developing the Most Advanced Electric Motorcycle Brand in the World on the Racetrack



# Lightning Motorcycles Winning Profile

- 2017 Set Land speed Record El Mirage 211.7 mph
- 2015 Set Land speed Record - Mojave Mile 209.1 mph
- 2013 1st Place Overall - Motorcycle Pikes Peak International Hill Climb
- 2012 1st Place - FIM ePower -Europe Le Mans, France  
1st Place - FIM ePower - USA Laguna Seca California  
1st Place - Infineon Raceway Sonoma California
- 2011 Set Land Speed Record - Bonneville 215.907mph  
(218.637 top speed)
- 2010 Set Land Speed Record - 173.038mph (176.388 top speed)  
North American Champions - TTXGP Zero Emissions  
2nd place - Infineon Raceway, Sonoma California  
1st place - Road America Raceway, Elkhart Lake, Wisconsin  
1st place - Mosport Raceway, Ontario Canada 1st place  
Virginia Int'l Raceway, Southern Virginia



# Branding Achievements of Lightning Competition

## Acquired brand prestige and world class reputation

By setting speed records and winning races, Lightning has built its reputation on technology, innovation and performance to become the global leader in electric motorcycle industry.

## Proved superiority of Lightning technology

Lightning has used competition to develop, test and prove new and innovative technology for its products.

## Earned global brand exposure and industry credibility

The success of Lightning's racing has earned the attention of global media and opened the doors to top-tier industry players.



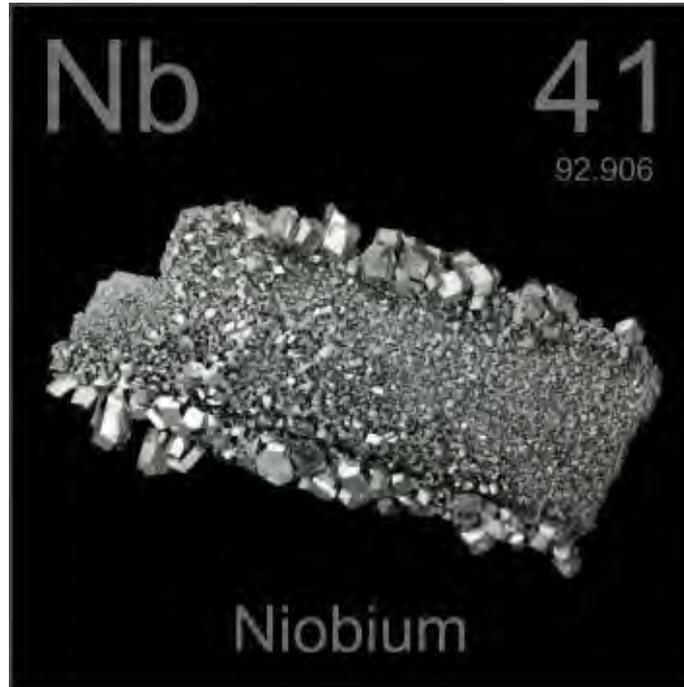


SECTION IV  
LIGHTNING + CBMM  
PARTNERSHIP

# Stage 1: Uninformed

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What is Niobium?



# Stage 2: Skeptical but Curious

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## Industry Applications

Rocket Engines



Inductive Pipelines



Jet Engines



## Stage 3: Excited

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Lightning Racing Applications



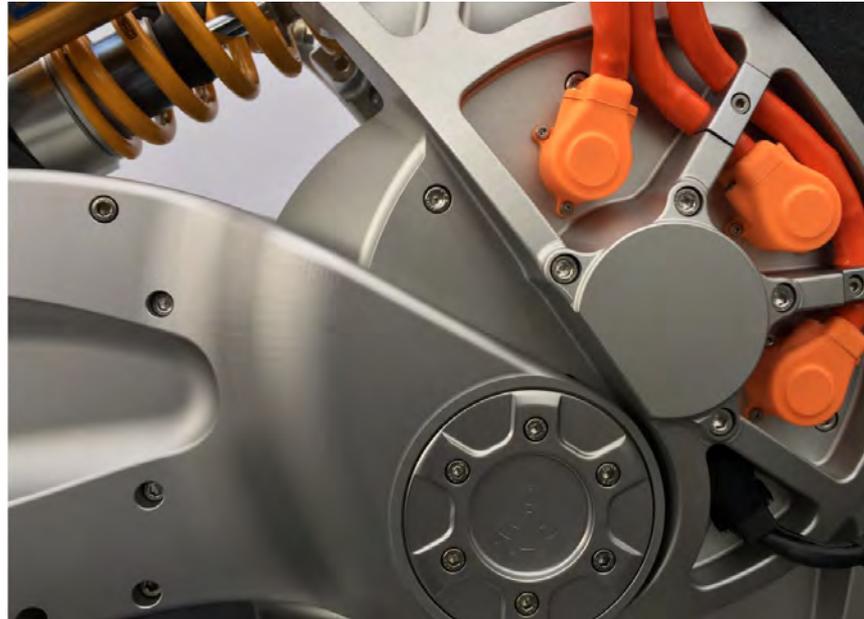
Lightning Product Applications

# Identification and Implementation

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## Niobium Laminations in Electric Motors

Theoretically this application could increase motor efficiency by 3% translating into a 30-50 % decrease in heat generation





Q&A

Ride the Future