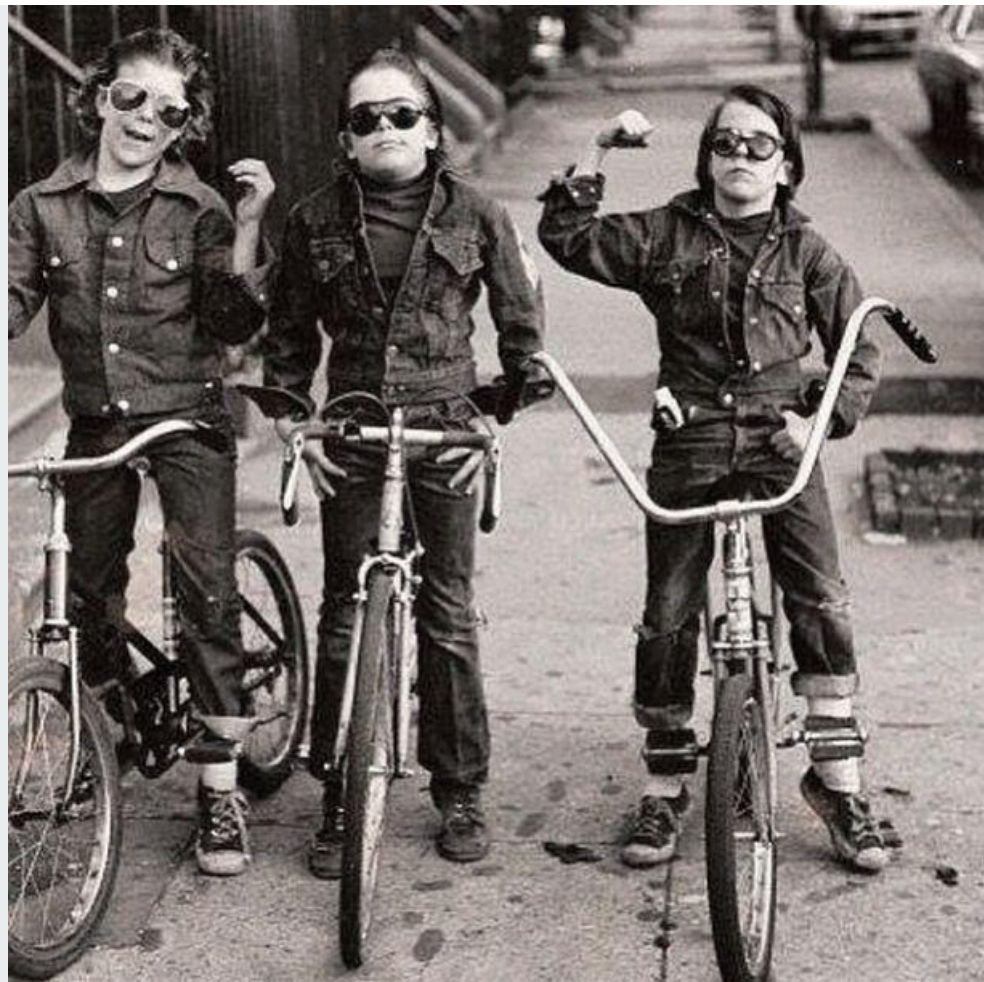


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# JGL Bike Gang

Jacob Huff,  
Gillian Holman,  
Lucy Rukstales





# Team Outreach

- [Rochester Institute of Technology](#)
  - 2008 KTM 990 Super Duke
  - PPIHC and eMotoRacing
- [Virginia Tech](#)
  - Donated Chassis
  - 996 Lithium-ion Cells
  - TI MSP432 Microcontroller used for internal signals
- [Penn State University](#)
  - 2015 BMW S 1000 RR
  - Larson Transportation Institute has transportation research facility
  - Battery application technology and energy research laboratory

## Questions Asked

- What chassis they used
- Where the team competed in the past
- Where they plan to compete in future (post COVID)
- Who their sponsors are
- Estimate for the funding they needed to start the club

## If given chassis and dimensions...

- Calculate the volume of space for electric machine, power electronics, etc.



# Electric Motorcycle Competitions

## Pikes Peak International Hill Climb (PPIHC):

- 12.42 miles
- 156 turns
- Motorcycle Course Record: 9:44.963
  - Rennie Scaysbrook
  - April 2018

## Isle of Man TT Zero:

- 37.75 miles
- TT Zero Record: 18:34.956
  - Michael Rutter (Team Mugen)
  - 2018
  - Average Speed: 121.824 mph
- Currently taking a break
  - Last race appears to have been in 2018
  - October 2019



# Sources

1. [Penn State e-Sportbike](#)
2. [Bolt at Virginia Tech](#)
3. [Electric Vehicle Team](#)
4. [The Isle of Man TT Races](#)
5. [Pikes Peak International Hill Climb](#)
6. [Why did the Isle of Man halt the TT Zero?](#)
7. [Current Isle of Man TT Race Records](#)