Electric Velomobile

University of New Hampshire

What is our Problem?

- Create a vehicle that has 80% of the comfort and convenience of a car using 20% of the energy needed to power the engine.
- We chose to build a modifed velomobile



Objectives

- Build a velomobile that is priced under \$20,000 dollars.
- Entirely electric vehicle.
- Above-average range of 400 miles.
- Be able to travel at highway speeds (60-80mph).
- Two seats with storage space.

- Finish welding frame by March
- Finish suspension assembly by
 - April
- Assemble steering before April 12
- Finish Shell assembly by April
- Install powertrain before April 12
- Last 2 weeks before URC is extra
 - time

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Methods

- Do research over J-Term
- Start welding the frame over J-term

Results

• The Trike was not completed in full before the URC so our data is limited to the models we made for the shell and trike overall











• Double Wishbone suspension using steel tubing and ball joints



Conclusions

- More time
- Organization and attendance
- Communication
- Funding and planning
- Documentation
- Rolling Chassis



Next Steps

- Find a space to continue the work
- Get funding to continue the work
- Improve already existing design and materials
- Get feedback

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