E-bike project

Budget: $1000 max

Time: 9 Months

Specs: Ranked by importance

* + 500 W hub motor
    - Steel forks 100mm dropout (torque arms)
    - 700c wheel
    - Around 300 RPM
    - 3-phase
  + 36-48V – 10-20ah li-ion cell
    - Battery Management System
    - 3-D printed casing with removable locking system
    - Charger
  + Pedal-Assisted-System (PAS)
    - Variable speed controller
      * Arduino
      * 3-phase inverter) H-bridge
    - Torque sensor
    - 3-D printed removable casing
    - Accelerometer?
  + L.E.D. Front and Rear Lights
  + Regen Braking system?

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