

**GLV Proposed**

**Full Mechanical Design Memo**

**ECE 492 – Spring 2019**

Latest Revision: 05/15/2019

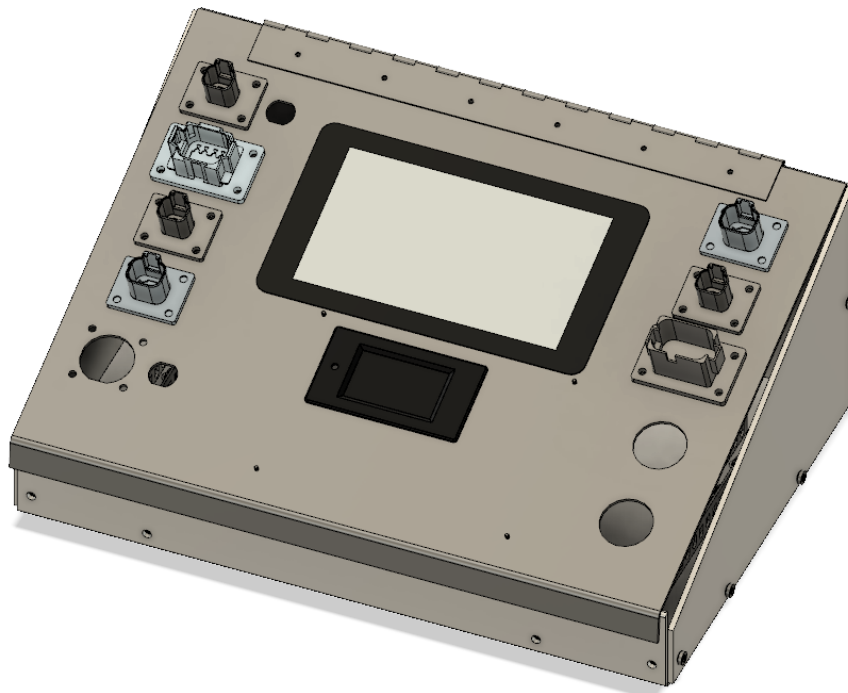
Prepared by: Maxwell McFarlane

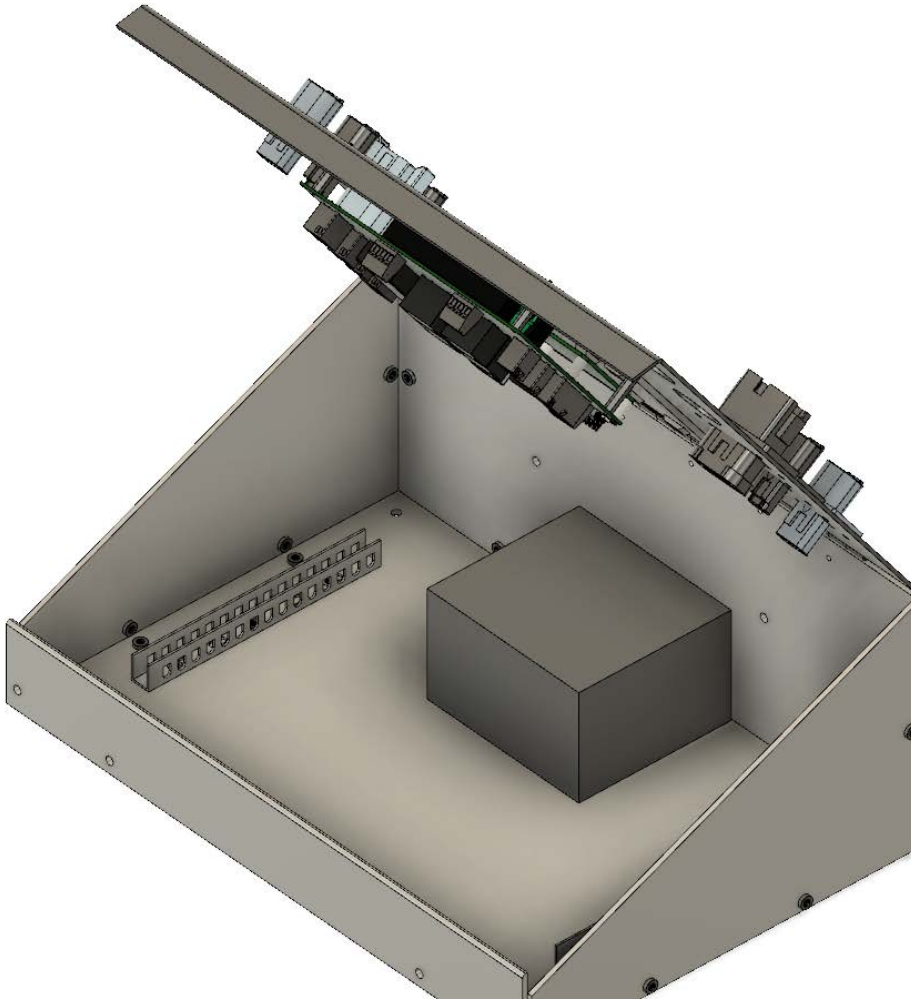
## **Abstract**

This document is intended to provide a brief proposal of the 2020 GLV enclosure mechanical design.

## Design Proposal 1:

This proposed design features a GLV enclosure that uses the GLV top panel, used in the 2019 Dyno setup, as a lid, which can enclose the GLV battery. The advantages of this design are that the battery can be enclosed and protected. In addition, the mechanical design for this can be found using the following link. However, there are some remaining parts that need to be designed. Such as the locking mechanism or the connection from the GLV battery to the GLV BOB.





Version 4: <https://a360.co/2VC1p5z>

Version 3: <https://a360.co/2vZslgj>

## Design Proposal 2:

This proposed design is to integrate the GLV enclosure with the TSI enclosure. This would save space and wiring. Ideally, the GLV would act as a lid to the GLV portion of the TSI. However, this design has not been discussed in detail and the designers would need to be careful to keep high voltage away from the GLV portion.