Land Vehicle Family

- Be open source.
- Be open architecture.
- Look professional and well organized.
- Easy for a first year engineering student to assemble and use.

LV1 Motor Module Manufacturability
- Perform at or above the level of the previous module.
- Cost less than the previous module.
- Be lighter than the previous generation.
- Be faster than the previous generation.
- Be easily manufacturable.

LV1 Platform Integration
- Interface with as many motor modules as possible
- Be lighter than previous generation.
- Provide a means to secure a 1kg payload.
- Be equal in size or smaller than the previous generation.
- Be stable on a flat surface (i.e. tabletop).
- Be faster than the previous generation.

LV1 Motor Controller Manufacturability
- Cost less than the previous controller.
- Use space more effectively than previous generations.
- Perform at or above the level of the previous controller.
- Be easily manufacturable.