CLAIMS:

What is claimed is:

1. A system comprising:
   one or more rib mounting flanges, wherein each rib mounting flange comprises:
      a spar opening configured to receive a main spar of a wing panel;
      one or more holes for receiving cross-bracing cables; and
      one or more holes for connecting the rib mounting flange to an adjacent rib mounting flange;
      a plurality of pieces; and
      a battery, wherein the battery is attached to the plurality of pieces.

2. The system of claim 1, wherein each rib mounting flange is configured to transfer a load from a rib member to the rib mounting flange and then to the main spar.

3. The system of claim 1, further comprising:
   one or more rib members, wherein each rib member is attached to each rib mounting flange.

4. The system of claim 3, wherein each rib member is attached to each rib mounting flange via an adhesive.

5. The system of claim 1, wherein each of the plurality of pieces is attached around the main spar to connect the rib mounting flange to the main spar, wherein the plurality of pieces adapt to a varying main spar profile.

6. The system of claim 5, wherein an outside surface of the main spar is irregular.

7. The system of claim 1, wherein each rib mounting flange is made of carbon fiber and epoxy.

8. The system of claim 1, wherein an outside diameter of the main spar matches a diameter of the spar opening.

9. A system comprising:

one or more wing panels comprising one or more spars;

one or more rib mounting flanges, wherein each rib mounting flange comprises a spar opening configured to receive the one or more spars; and

wherein each rib mounting flange comprises a plurality of pieces;

one or more rib members, wherein each rib member of the one or more rib members is attached to each rib mounting flange of the one or more rib mounting flanges;

one or more cross-bracing cables;

wherein the one or more rib mounting flanges comprise an inboard end rib flange;

wherein the one or more rib members comprise an inboard end rib member;

wherein the inboard end rib flange connects the inboard end rib member to the one or more spars;

wherein the inboard end rib flange is located proximate a connection between two adjacent wing panels of the one or more wing panels;

wherein the one or more rib mounting flanges further comprise an outboard end rib flange;

wherein the one or more rib members comprise an outboard end rib member;

wherein the outboard end rib flange connects the outboard end rib member to the one or more spars;

wherein the outboard end rib flange is located proximate an end of the one or more wing panels;

wherein the one or more rib mounting flanges further comprise a center compression rib flange;

wherein the one or more rib members comprise a center compression rib member;

wherein the center compression rib flange connects the center compression rib member to the one or more spars;

wherein the center compression rib flange is located proximate a center of the one or more wing panels;

wherein the one or more cross-bracing cables are connected between the inboard end rib flange, the center compression rib flange, and the outboard rib flange; and

wherein the outboard end rib member, center compression rib member, and inboard end rib member absorb cross-bracing loads and transfer the loads to the one or more spars.

10. The system of claim 9, wherein the one or more spars comprise a main spar, and wherein each of the one or more rib mounting flanges is configured to transfer a load from the one or more rib members to the rib mounting flange and then to the main spar.

11. The system of claim 9, wherein each of the plurality of pieces is attached around the one or more spars to connect the rib mounting flange to the one or more spars, wherein the plurality of pieces adapt to a varying main profile of the one or more spars.

12. The system of claim 11, wherein an outside surface of a main spar of the one or more spars is irregular.

13. The system of claim 9, wherein the one or more rib mounting flanges further comprise two or more light weight rib flanges, wherein the two or more light weight rib flanges connect the one or more rib members to the one or more spars, and wherein the two or more light weight rib flanges are located between the inboard end rib member and the center compression rib member and the center compression rib member and the outboard end rib member.