CLAIMS:

1. A programmable logic controller assembly, comprising:

a bottom housing comprising a base, a first plurality of ~~elongate~~ alignment features extending from the bottom housing in a direction transverse to the base, and a first connection feature;

a central processing unit comprising a circuit board and at least two receptacles through the circuit board configured to engage and slide along at least two of the first plurality of alignment features, wherein the at least two of the first plurality of alignment features are positioned asymmetrically with respect to the base; and

an upper housing comprising a second connection feature configured to slidably couple with the first connection feature and a second plurality of ~~elongate~~ alignment features configured to slidably engage ~~at least~~ two or more of the first plurality of alignment features, wherein the ~~at least~~ two or more of the first plurality of alignment features are positioned asymmetrically with respect to the base.

2. The programmable logic controller assembly of claim 1, comprising a input/output board including at least two receptacles through a portion of the input/output board configured to engage and slide along the at least two of the first plurality of alignment features~~, wherein the at least two of the first plurality of alignment features are positioned asymmetrically with respect to the base~~.

3. The programmable logic controller assembly of claim 2, wherein the input/output board comprises a first connector configured to communicatively couple with a second connector of the central processing unit to facilitate transmission of data between the input/output board and the central processing unit.

4. The programmable logic controller assembly of claim 3, wherein the first connector is aligned with the second connector when the at least two receptacles of the central processing unit and the at least two receptacles of the input/output board are each

properly engaged with ~~corresponding alignment features~~ the at least two of the first plurality of alignment features.

5. The programmable logic controller assembly of claim 3, wherein the first connector comprises a pin and the second connector comprises a socket.

6. The programmable logic controller assembly of claim 1, wherein the first plurality of alignment features comprises at least one alignment feature that includes an elongate receptacle configured to engage with a one of the second plurality of alignment features including a projection.

7. The programmable logic controller assembly of claim 1, wherein the first plurality of alignment features comprises at least one alignment feature that includes a projection configured to engage with a one of the second plurality of alignment features including an elongate receptacle.

8. The programmable logic controller assembly of claim 1, wherein the first connection feature comprises a tab cantilevered from a body of the bottom housing and the second connection feature comprises an opening in a wall of the upper housing, the tab being configured to flex away from the opening as a lip of the tab slides past an upper edge of the opening and then flex into the opening such that the lip abuts the upper edge and holds the bottom housing and the upper housing together.

9. The programmable logic controller assembly of claim 1, wherein the second connection feature comprises a tab cantilevered from a body of the upper housing and the first connection feature comprises an opening in a wall of the bottom housing, the tab being configured to flex away from the opening as a lip of the tap slides past a lower edge of the opening and then flex into the opening such that the lip abuts the lower edge and holds the bottom housing and the upper housing together.