

The objective was to redesign the current Bamboo Bike produced by Alabamboo.

Problems with the current design:

- Resin is used at the joints making repairs impossible.
- The bike is not available where bamboo grows naturally.
- Cost to produce each bike is high.
- Production of the bike is very labor intensive

To eliminate the need for Resin and to make the entire bike repairable a metal band system is used. Each joint uses metal bands that rap around the bamboo and tightened. This uses the bamboo's natural compression for strength.

By using the band system only the joints and wheels need to be shipped allowing the customer to use local materials for the body of the bike.

The overall cost of the bike is reduced by mass producing simple parts that can be easily replaced.

