

Roboteos Inc. Solar Prize Round 7 Technical Assistance Request

In the Solar Prize Round 7 competition, Roboteos is looking to further develop its prototype into a commercial product and is seeking assistance in several areas outlined below.

1. Custom PV module

In order to maximize the effectiveness of the proposed mobile solar tracker, Roboteos needs to partner with a PV module manufacturer to design, manufacture, validate, and certify a custom solar panel meeting our specifications.

We are seeking a solar panel (or combination of panels) that exceeds 400W peak power, utilizes high efficiency solar cells and achieves a module power density larger than 200W/m². The panel array must be lightweight, with a total mass less than 14kg, and be designed to integrate into our structure mounting system.

Roboteos is prepared to provide a complete list of requirements, and is looking for a partner with experience in design and small scale production manufacturing.

2. Prototype and Production Manufacturing

Roboteos has several iterations of designs of the prototype to test for weight and cost reduction initiatives, and is looking for manufacturing partners capable of the following machining operations:

- Precision steel and aluminum tube profiling
- Welding and jiggling to hold tight assembly tolerances
- CNC machining
- Sheet metal fabrication
- Laser sheet metal cutting
- Powdercoating
- Assembly

Roboteos is prepared to share CAD files and drawings of all parts, and is looking for a partner to complete the prototype development, and transition into the first production runs.

3. Electronics Certification Testing Laboratory

Roboteos is seeking an electronics test facility that can perform FCC, RoHs, and any other required electronics safety and certification testing for electronic products to be sold in the US

and Europe. Roboteos has designed and built a custom PCB complete with enclosure and wiring harness, and can bring representative equipment to be tested at the lab facility.

4. Business development, fund raising

Roboteos is looking for assistance with business development and potentially raising external capital. Business development areas include:

- Marketing and advertising
- SEO and website development
- Sales strategy
- Product pricing

At the moment, Roboteos is focusing on sourcing non-dilutive forms of capital, but is also considering raising capital from a seed round. We are looking for assistance setting terms for the round and finding appropriate investors.

We are excited about the opportunity to work within the American Made Network to get assistance with these areas, and bring our innovation to market!