

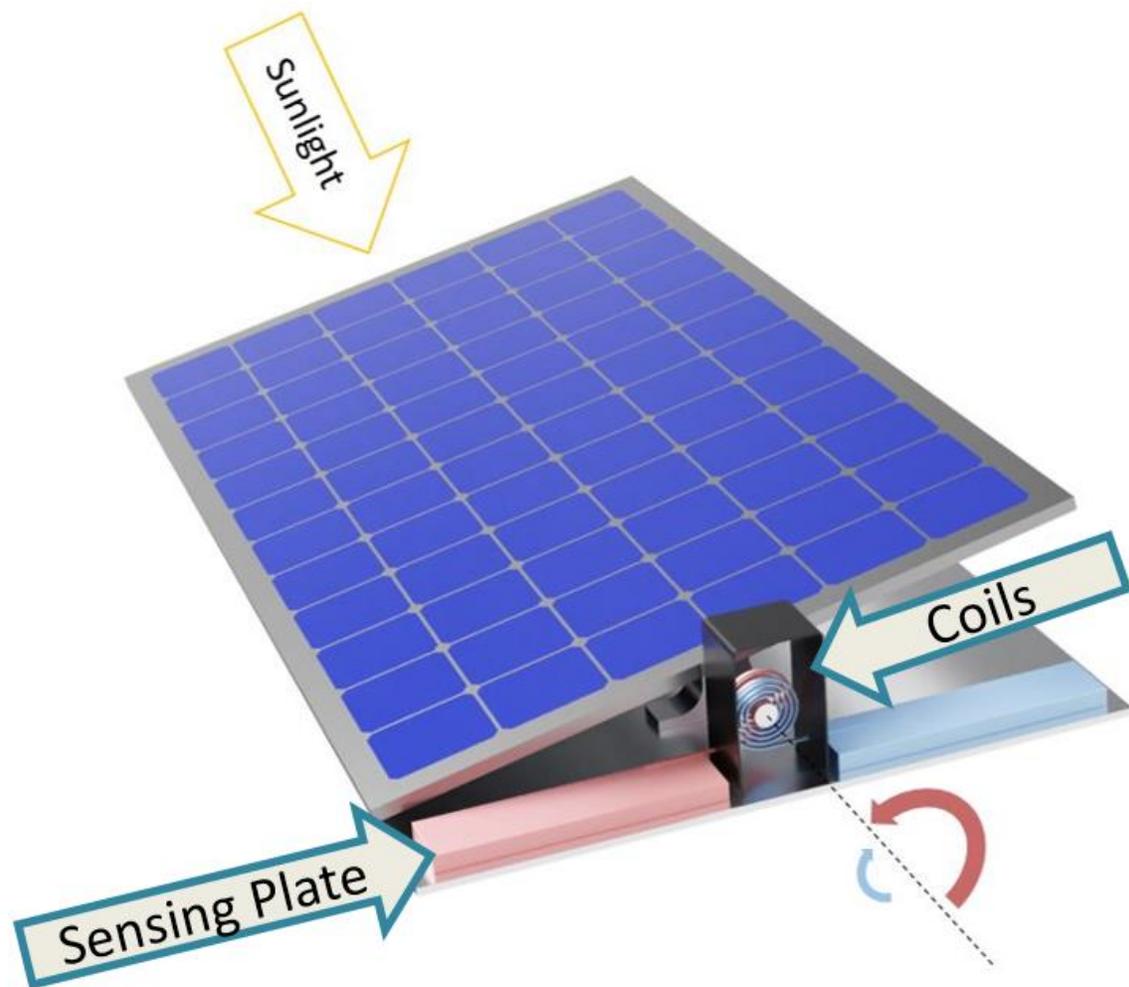
## Technical Assistance Request

**Project:** Reliable and Low Cost Passive Solar Tracking

**Company:** Gizmatic LLC

**Address:** 7411 Livingston Rd., Ste 204, Oxon Hill, MD 20745

**Contact:** Will Vatis, 571-488-1614, [will@gizmatictech.com](mailto:will@gizmatictech.com)



Our team is working on developing a low cost, low maintenance, and robust passive solar tracking system, which uses the temperature difference of bimetallic coils for actuation. In order to help us develop our new technology we request technical assistance in the following areas:

#### PV Solar panel power output:

- Comparative testing and validation by a trusted third party to show performance benefits of our system over conventional fixed angle solar panels

#### Bimetallic coil cycle testing/design:

- The main functional components in our system are two opposing bimetallic coils. They are also the main moving component. Due to this, it is critical that we verify the max force generation and durability of the chosen coils for fatigue life under cyclical loading.
- If already available coils are not sufficient in either max force generation or fatigue life, we may require assistance in the field of material science to develop a custom bimetallic coil for our purposes.

#### Business Consulting:

- A key point of our business plan is to partner with solar industry panel manufacturers and/or installers as an avenue to sell our solar tracking system. We will also need partners to work with for the final stage of design, to ensure our system works with existing solar panel hardware and installation procedures. We will need assistance identifying and networking with potential partners for these purposes.

#### Funding Partners:

- After we have tested and iterated our system through a pilot program, we will likely need investment partners to enable us to produce our system in enough scale to reduce per unit cost, as well as to increase our sales and marketing budget.

#### Manufacturing Supply Chain:

- We will need assistance from the American Made Network or other partners to help find local manufacturers and establish our manufacturing supply chain.