

Solar Tracking Shade

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Goals/Problem Statement:

Improve the distribution of shade in public outdoor areas with motorized shades that utilize sensors to provide optimal shade throughout the day around a set point and utilize maximum photovoltaic power point tracking for a self-sufficient power supply

Deliverables:

- Maximum power point tracking system
- Fully functional frame, shade, and motor system
- Control box including microcontroller
- Full day studies under variable conditions

