

Solar, Human and Electric Powered Program (SHEP Program)

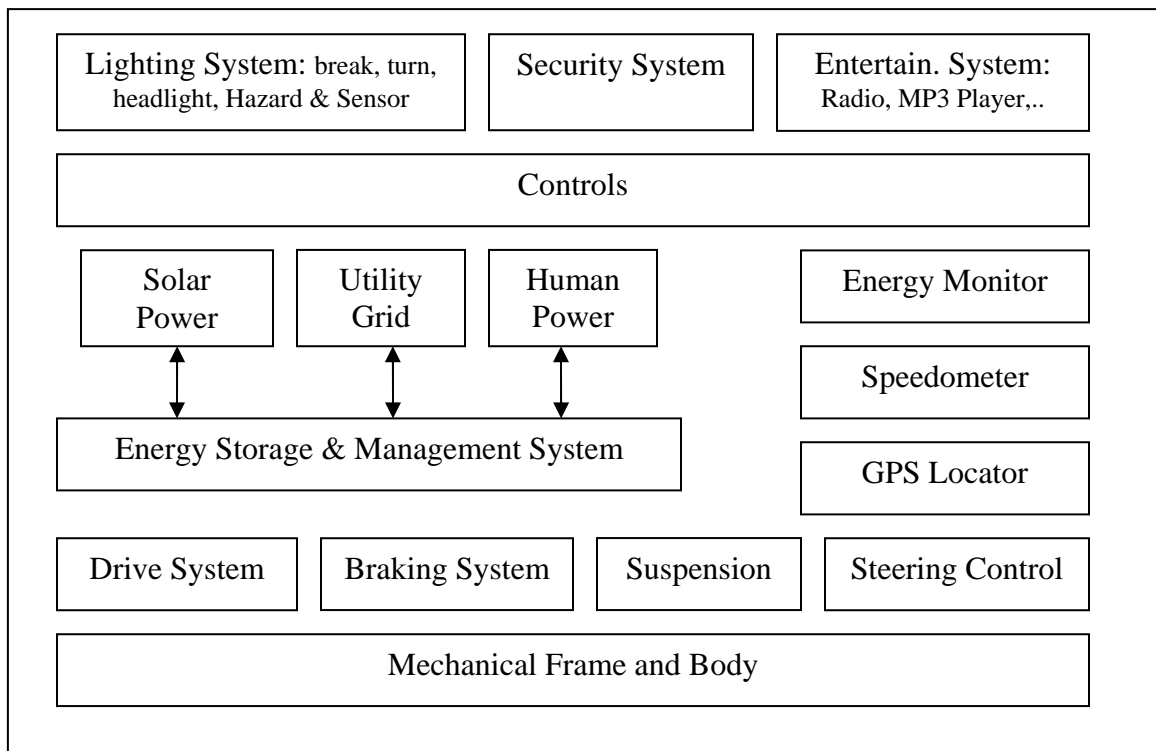
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Objective

Develop a vehicle that is able to carry a person using solar energy with fall back to human and public electrical utility grid. The final solution must also meet the following requirements:

- Maximum loaded weight of 650 lbs (400 lbs unload weight)
- Fit within a 4x8 feet area
- Speed range 0 to 50 miles per hour
- Minimum range of 100 miles
- Maximize the % of energy derived from solar
- Material and Labor cost of less than \$2000.

Block Diagram of Solution



Team Projects

Each team is required to implement one or more of the subsystems that can be used in the final solution. Projects will be evaluated based:

- Value (Cost vs. Benefits)
- Complexity
- Completeness of Design
- Ease of use, integration and maintenance
- Clarity, format and completeness of report