Objective
To utilize MET, EET, and SES technical skills to convert a gasoline driven go-kart into a solar-assisted-electric-vehicle.

Build Team:
Aimee Chastain - EET, SES
Dennis Holliman - EET, SES
Adam Wasson - MET

<table>
<thead>
<tr>
<th>Part/Spec</th>
<th>Electrical Spec</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>SAEV SPECS</td>
<td>Voltage</td>
<td>36 V</td>
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<tr>
<td></td>
<td>Rev/min</td>
<td>3000</td>
</tr>
<tr>
<td></td>
<td>Output Speed</td>
<td>12.8 MPH</td>
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<tr>
<td></td>
<td>Charge Current</td>
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</tr>
<tr>
<td></td>
<td>HP</td>
<td>1.34</td>
</tr>
<tr>
<td></td>
<td>Power</td>
<td>280 Watts</td>
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<tr>
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<tbody>
<tr>
<td>Torque</td>
<td>3.185 N·m</td>
</tr>
<tr>
<td>RPM</td>
<td>200</td>
</tr>
<tr>
<td>Wheel Rollout</td>
<td>5.63 feet</td>
</tr>
<tr>
<td>Charge Time</td>
<td>10.6 hours</td>
</tr>
<tr>
<td>PV Output</td>
<td>2.3491 ft·lb</td>
</tr>
<tr>
<td>Output Torq.</td>
<td>35.2 ft·lb</td>
</tr>
<tr>
<td>Single Wheel Drive</td>
<td>85 Amp Hours</td>
</tr>
<tr>
<td>Run Time</td>
<td>2 hours</td>
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<tr>
<td>Gear Box</td>
<td>15 to 1</td>
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<tr>
<td>Passengers</td>
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<tr>
<td>Battery Output</td>
<td>24 Volts</td>
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<tr>
<td>Amps</td>
<td>42</td>
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<tr>
<td>Wheel ϴ</td>
<td>21.5 inches</td>
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<tr>
<td>Weight</td>
<td>548 lb.</td>
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<tr>
<td>Amp Hours</td>
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<tr>
<td>Power</td>
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