## EML2322L Decision Matrix Example

<table>
<thead>
<tr>
<th>MOBILE PLATFORM</th>
<th>Design 1</th>
<th>Design 2</th>
<th>Design 3</th>
<th>Design 4</th>
<th>Design 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Objective</td>
<td>Weighting Factor</td>
<td>Parameter</td>
<td>Mag. Score</td>
<td>Value</td>
<td>Mag. Score</td>
</tr>
<tr>
<td>Speed</td>
<td>0.20</td>
<td>feet / sec</td>
<td>1.7</td>
<td>4.9</td>
<td>1.0</td>
</tr>
<tr>
<td>Controllability</td>
<td>0.30</td>
<td>experience</td>
<td>fair</td>
<td>4</td>
<td>1.2</td>
</tr>
<tr>
<td>Manufacturing Time</td>
<td>0.20</td>
<td>hours</td>
<td>8.4</td>
<td>7.1</td>
<td>1.4</td>
</tr>
<tr>
<td>Modularity</td>
<td>0.20</td>
<td>fasteners</td>
<td>2</td>
<td>10</td>
<td>2.0</td>
</tr>
<tr>
<td>Material Cost</td>
<td>0.10</td>
<td>$</td>
<td>28.00</td>
<td>2.7</td>
<td>0.3</td>
</tr>
</tbody>
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Overall value | 5.9 | 7.9 | 7.1 | 7.6 | 9.0 |

<table>
<thead>
<tr>
<th>BUCKET MANIPULATOR</th>
<th>Design 1</th>
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<th>Design 3</th>
<th>Design 4</th>
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Overall value | ... | ... | ... | ... |

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<tr>
<th>ETCETERA ...</th>
<th>Design 1</th>
<th>Design 2</th>
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<th>Design 4</th>
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Overall value | ... | ... | ... | ... |

### Qualitative Score Assignments:
- great: 10
- good: 8
- okay: 6
- fair: 4
- poor: 2