Scott White

EECE 490A

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**Product Specifications**

Metric List

|  |  |  |  |
| --- | --- | --- | --- |
| **Metric #** | **Metric** | **Importance** | **Units of Measurment** |
| 1 | Height | 3 | Meters |
| 2 | Surface Area Occupied | 3 | Meters^2 |
| 3 | Temperature of coffee after brewing | 4 | Farenheit |
| 4 | Time burner stays on after brewing | 2 | Seconds |
| 5 | Fluid ounces the machine can brew (cups) | 4 | Cups |
| 6 | Voltage level the user could be exposed too | 5 | Volts |
| 7 | Buttons available for manual operation | 2 | List |
| 8 | Brewing paramaters the user can control | 3 | List |
| 9 | Time and difficulty to setup | 5 | Seconds |
| 10 | Features for autonomous brewing | 3 | List |
| 11 | Cost | 5 | Dollars |

Marginal & Acceptable Values

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Metric #** | **Metric** | **Importance** | **Units of Measurment** | **Marginal Value** | **Ideal Value** |
| 1 | Height | 3 | Meters | > 0.6 | 0.4 |
| 2 | Surface Area Occupied | 3 | Meters^2 | 0.7 | 0.1 |
| 3 | Temperature of coffee after brewing | 4 | Farenheit | < 180 | 205 |
| 4 | Time burner stays on after brewing | 2 | Seconds | 3600 | 5400 |
| 5 | Fluid ounces the machine can brew (cups) | 4 | Cups | 6 | 12 |
| 6 | Voltage level the user could be exposed too | 5 | Volts | 120 V AC | > 12 V DC |
| 7 | Buttons available for manual operation | 2 | List | None | Some |
| 8 | Brewing paramaters the user can control | 3 | List | Start time | Start time, cups, strength |
| 9 | Time and difficulty to setup | 5 | Seconds | Easy | Easy & Quick |
| 10 | Features for autonomous brewing | 3 | List | Semi hands free | Hands free |
| 11 | Cost | 5 | Dollars | > $100 | > $50 |