# Criteria Analysis

## Engineer 1

Pairwise Comparison Matrix:  
[[1. 1. 3. 1. 1. 1. 3. 1. ]  
 [1. 1. 3. 1. 1. 3. 1. 1. ]  
 [0.333 0.333 1. 1. 3. 3. 3. 3. ]  
 [1. 1. 1. 1. 3. 1. 1. 1. ]  
 [1. 1. 0.333 0.333 1. 3. 1. 1. ]  
 [1. 0.333 0.333 1. 0.333 1. 1. 1. ]  
 [0.333 1. 0.333 1. 1. 1. 1. 1. ]  
 [1. 1. 0.333 1. 1. 1. 1. 1. ]]

Weights:  
[0.166, 0.165, 0.167, 0.134, 0.106, 0.078, 0.086, 0.098]

Max Eigenvalue: 9.054

Consistency Index (CI): 0.151

Consistency Ratio (CR): 0.107

Random Index (RI): 1.41

## Engineer 2

Pairwise Comparison Matrix:  
[[1. 1. 1. 3. 5. 5. 3. 3. ]  
 [1. 1. 5. 5. 7. 7. 7. 5. ]  
 [1. 0.2 1. 9. 7. 9. 7. 1. ]  
 [0.333 0.2 0.111 1. 3. 3. 3. 3. ]  
 [0.2 0.143 0.143 0.333 1. 3. 1. 1. ]  
 [0.2 0.143 0.111 0.333 0.333 1. 3. 1. ]  
 [0.333 0.143 0.143 0.333 1. 0.333 1. 3. ]  
 [0.333 0.2 1. 0.333 1. 1. 0.333 1. ]]

Weights:  
[0.175, 0.334, 0.229, 0.08, 0.042, 0.039, 0.045, 0.055]

Max Eigenvalue: 9.628

Consistency Index (CI): 0.233

Consistency Ratio (CR): 0.165

Random Index (RI): 1.41

## Engineer 3

Pairwise Comparison Matrix:  
[[1. 1. 9. 7. 1. 7. 1. 5. ]  
 [1. 1. 3. 3. 7. 7. 7. 9. ]  
 [0.111 0.333 1. 3. 1. 3. 3. 3. ]  
 [0.143 0.333 0.333 1. 7. 5. 1. 3. ]  
 [1. 0.143 1. 0.143 1. 7. 3. 1. ]  
 [0.143 0.143 0.333 0.2 0.143 1. 9. 0.333]  
 [1. 0.143 0.333 1. 0.333 0.111 1. 9. ]  
 [0.2 0.111 0.333 0.333 1. 3. 0.111 1. ]]

Weights:  
[0.245, 0.255, 0.097, 0.12, 0.099, 0.07, 0.073, 0.04]

Max Eigenvalue: 12.555

Consistency Index (CI): 0.651

Consistency Ratio (CR): 0.462

Random Index (RI): 1.41

## Engineer 4

Pairwise Comparison Matrix:  
[[1. 1. 1. 3. 1. 3. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [0.333 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [0.333 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]]

Weights:  
[0.175, 0.122, 0.122, 0.108, 0.122, 0.108, 0.122, 0.122]

Max Eigenvalue: 8.198

Consistency Index (CI): 0.028

Consistency Ratio (CR): 0.02

Random Index (RI): 1.41

## Engineer 5

Pairwise Comparison Matrix:  
[[1. 3. 1. 3. 1. 1. 1. 1. ]  
 [0.333 1. 1. 1. 0.333 0.333 0.333 0.333]  
 [1. 1. 1. 3. 1. 1. 1. 1. ]  
 [0.333 1. 0.333 1. 1. 1. 1. 1. ]  
 [1. 3. 1. 1. 1. 1. 1. 1. ]  
 [1. 3. 1. 1. 1. 1. 1. 1. ]  
 [1. 3. 1. 1. 1. 1. 1. 1. ]  
 [1. 3. 1. 1. 1. 1. 1. 1. ]]

Weights:  
[0.158, 0.064, 0.143, 0.096, 0.135, 0.135, 0.135, 0.135]

Max Eigenvalue: 8.357

Consistency Index (CI): 0.051

Consistency Ratio (CR): 0.036

Random Index (RI): 1.41

## Engineer 6

Pairwise Comparison Matrix:  
[[1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]]

Weights:  
[0.125, 0.125, 0.125, 0.125, 0.125, 0.125, 0.125, 0.125]

Max Eigenvalue: 8.0

Consistency Index (CI): 0.0

Consistency Ratio (CR): 0.0

Random Index (RI): 1.41

## Engineer 7

Pairwise Comparison Matrix:  
[[1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 3. 3. 3. 3. 3. 3. ]  
 [1. 0.333 1. 3. 1. 1. 1. 1. ]  
 [1. 0.333 0.333 1. 1. 1. 3. 3. ]  
 [1. 0.333 1. 1. 1. 3. 3. 3. ]  
 [1. 0.333 1. 1. 0.333 1. 3. 3. ]  
 [1. 0.333 1. 0.333 0.333 0.333 1. 3. ]  
 [1. 0.333 1. 0.333 0.333 0.333 0.333 1. ]]

Weights:  
[0.112, 0.254, 0.119, 0.115, 0.149, 0.113, 0.078, 0.059]

Max Eigenvalue: 8.914

Consistency Index (CI): 0.131

Consistency Ratio (CR): 0.093

Random Index (RI): 1.41

## Engineer 8

Pairwise Comparison Matrix:  
[[1. 0.2 0.2 0.2 1. 0.2 1. 1. ]  
 [5. 1. 1. 1. 1. 1. 1. 1. ]  
 [5. 1. 1. 1. 0.143 1. 1. 1. ]  
 [5. 1. 1. 1. 0.2 9. 9. 1. ]  
 [1. 1. 6.998 5. 1. 0.2 1. 1. ]  
 [5. 1. 1. 0.111 5. 1. 1. 1. ]  
 [1. 1. 1. 0.111 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]]

Weights:  
[0.046, 0.103, 0.088, 0.245, 0.207, 0.156, 0.068, 0.087]

Max Eigenvalue: 11.485

Consistency Index (CI): 0.498

Consistency Ratio (CR): 0.353

Random Index (RI): 1.41

## Engineer 9

Pairwise Comparison Matrix:  
[[1. 3. 3. 5. 5. 5. 3. 3. ]  
 [0.333 1. 1. 3. 5. 3. 5. 3. ]  
 [0.333 1. 1. 3. 1. 3. 5. 3. ]  
 [0.2 0.333 0.333 1. 5. 5. 5. 3. ]  
 [0.2 0.2 1. 0.2 1. 1. 3. 5. ]  
 [0.2 0.333 0.333 0.2 1. 1. 3. 3. ]  
 [0.333 0.2 0.2 0.2 0.333 0.333 1. 1. ]  
 [0.333 0.333 0.333 0.333 0.2 0.333 1. 1. ]]

Weights:  
[0.314, 0.184, 0.151, 0.139, 0.077, 0.06, 0.034, 0.04]

Max Eigenvalue: 9.314

Consistency Index (CI): 0.188

Consistency Ratio (CR): 0.133

Random Index (RI): 1.41

## Engineer 10

Pairwise Comparison Matrix:  
[[1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]]

Weights:  
[0.125, 0.125, 0.125, 0.125, 0.125, 0.125, 0.125, 0.125]

Max Eigenvalue: 8.0

Consistency Index (CI): 0.0

Consistency Ratio (CR): 0.0

Random Index (RI): 1.41

## Engineer 11

Pairwise Comparison Matrix:  
[[1. 1. 3. 1. 3. 1. 3. 1. ]  
 [1. 1. 3. 1. 3. 1. 3. 1. ]  
 [0.333 0.333 1. 3. 1. 3. 3. 3. ]  
 [1. 1. 0.333 1. 1. 3. 1. 3. ]  
 [0.333 0.333 1. 1. 1. 1. 3. 1. ]  
 [1. 1. 0.333 0.333 1. 1. 3. 3. ]  
 [0.333 0.333 0.333 1. 0.333 0.333 1. 1. ]  
 [1. 1. 0.333 0.333 1. 0.333 1. 1. ]]

Weights:  
[0.176, 0.176, 0.166, 0.138, 0.095, 0.115, 0.056, 0.078]

Max Eigenvalue: 9.253

Consistency Index (CI): 0.179

Consistency Ratio (CR): 0.127

Random Index (RI): 1.41

## Engineer 12

Pairwise Comparison Matrix:  
[[1. 5. 1. 7. 9. 3. 0.333 0.333]  
 [0.2 1. 9. 1. 1. 0.111 0.2 0.333]  
 [1. 0.111 1. 1. 1. 1. 0.2 0.333]  
 [0.143 1. 1. 1. 1. 3. 1. 3. ]  
 [0.111 1. 1. 1. 1. 0.111 0.143 0.143]  
 [0.333 9.001 1. 0.333 9.001 1. 1. 1. ]  
 [3. 5. 5. 1. 6.998 1. 1. 0.143]  
 [3. 3. 3. 0.333 6.998 1. 6.998 1. ]]

Weights:  
[0.194, 0.074, 0.055, 0.129, 0.032, 0.135, 0.158, 0.224]

Max Eigenvalue: 12.036

Consistency Index (CI): 0.577

Consistency Ratio (CR): 0.409

Random Index (RI): 1.41

## Engineer 13

Pairwise Comparison Matrix:  
[[1. 7. 5. 3. 3. 1. 3. 3. ]  
 [0.143 1. 3. 5. 5. 3. 3. 5. ]  
 [0.2 0.333 1. 5. 3. 3. 5. 5. ]  
 [0.333 0.2 0.2 1. 5. 3. 3. 3. ]  
 [0.333 0.2 0.333 0.2 1. 3. 3. 1. ]  
 [1. 0.333 0.333 0.333 0.333 1. 1. 1. ]  
 [0.333 0.333 0.2 0.333 0.333 1. 1. 1. ]  
 [0.333 0.2 0.2 0.333 1. 1. 1. 1. ]]

Weights:  
[0.329, 0.203, 0.157, 0.102, 0.063, 0.064, 0.04, 0.042]

Max Eigenvalue: 10.163

Consistency Index (CI): 0.309

Consistency Ratio (CR): 0.219

Random Index (RI): 1.41

## Engineer 14

Pairwise Comparison Matrix:  
[[1. 9. 1. 1. 3. 7. 1. 1. ]  
 [0.111 1. 5. 1. 1. 5. 1. 1. ]  
 [1. 0.2 1. 1. 1. 5. 1. 1. ]  
 [1. 1. 1. 1. 9. 1. 3. 3. ]  
 [0.333 1. 1. 0.111 1. 3. 1. 3. ]  
 [0.143 0.2 0.2 1. 0.333 1. 1. 1. ]  
 [1. 1. 1. 0.333 1. 1. 1. 9. ]  
 [1. 1. 1. 0.333 0.333 1. 0.111 1. ]]

Weights:  
[0.238, 0.132, 0.103, 0.194, 0.085, 0.052, 0.131, 0.065]

Max Eigenvalue: 10.663

Consistency Index (CI): 0.38

Consistency Ratio (CR): 0.27

Random Index (RI): 1.41

## Engineer 15

Pairwise Comparison Matrix:  
[[1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 3. ]  
 [1. 1. 1. 1. 3. 3. 1. 1. ]  
 [1. 1. 1. 0.333 1. 1. 1. 1. ]  
 [1. 1. 1. 0.333 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 0.333 1. 1. 1. 1. 1. ]]

Weights:  
[0.12, 0.12, 0.146, 0.171, 0.106, 0.106, 0.12, 0.109]

Max Eigenvalue: 8.317

Consistency Index (CI): 0.045

Consistency Ratio (CR): 0.032

Random Index (RI): 1.41

## Engineer 16

Pairwise Comparison Matrix:  
[[1. 1. 1. 1. 1. 7. 1. 1. ]  
 [1. 1. 5. 1. 1. 7. 1. 1. ]  
 [1. 0.2 1. 1. 0.111 7. 1. 1. ]  
 [1. 1. 1. 1. 0.111 7. 0.111 0.143]  
 [1. 1. 9.001 9.001 1. 7. 1. 1. ]  
 [0.143 0.143 0.143 0.143 0.143 1. 0.143 1. ]  
 [1. 1. 1. 9.001 1. 6.998 1. 0.143]  
 [1. 1. 1. 6.998 1. 1. 6.998 1. ]]

Weights:  
[0.111, 0.141, 0.082, 0.064, 0.22, 0.032, 0.142, 0.208]

Max Eigenvalue: 10.782

Consistency Index (CI): 0.397

Consistency Ratio (CR): 0.282

Random Index (RI): 1.41

## Engineer 17

Pairwise Comparison Matrix:  
[[1. 1. 3. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [0.333 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]]

Weights:  
[0.15, 0.123, 0.111, 0.123, 0.123, 0.123, 0.123, 0.123]

Max Eigenvalue: 8.121

Consistency Index (CI): 0.017

Consistency Ratio (CR): 0.012

Random Index (RI): 1.41

## Engineer 18

Pairwise Comparison Matrix:  
[[1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]]

Weights:  
[0.125, 0.125, 0.125, 0.125, 0.125, 0.125, 0.125, 0.125]

Max Eigenvalue: 8.0

Consistency Index (CI): 0.0

Consistency Ratio (CR): 0.0

Random Index (RI): 1.41

## Engineer 19

Pairwise Comparison Matrix:  
[[1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]]

Weights:  
[0.125, 0.125, 0.125, 0.125, 0.125, 0.125, 0.125, 0.125]

Max Eigenvalue: 8.0

Consistency Index (CI): 0.0

Consistency Ratio (CR): 0.0

Random Index (RI): 1.41

## Engineer 20

Pairwise Comparison Matrix:  
[[1. 5. 5. 5. 5. 1. 5. 5. ]  
 [0.2 1. 1. 1. 1. 1. 1. 5. ]  
 [0.2 1. 1. 5. 5. 1. 1. 1. ]  
 [0.2 1. 0.2 1. 5. 1. 1. 1. ]  
 [0.2 1. 0.2 0.2 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [0.2 1. 1. 1. 1. 1. 1. 1. ]  
 [0.2 0.2 1. 1. 1. 1. 1. 1. ]]

Weights:  
[0.345, 0.108, 0.143, 0.091, 0.058, 0.108, 0.078, 0.069]

Max Eigenvalue: 9.251

Consistency Index (CI): 0.179

Consistency Ratio (CR): 0.127

Random Index (RI): 1.41

## Engineer 21

Pairwise Comparison Matrix:  
[[1. 1. 3. 1. 5. 3. 1. 5. ]  
 [1. 1. 3. 3. 5. 5. 3. 0.333]  
 [0.333 0.333 1. 9. 7. 7. 5. 3. ]  
 [1. 0.333 0.111 1. 5. 5. 5. 5. ]  
 [0.2 0.2 0.143 0.2 1. 5. 7. 5. ]  
 [0.333 0.2 0.143 0.2 0.2 1. 5. 7. ]  
 [1. 0.333 0.2 0.2 0.143 0.2 1. 5. ]  
 [0.2 3. 0.333 0.2 0.2 0.143 0.2 1. ]]

Weights:  
[0.168, 0.186, 0.237, 0.133, 0.093, 0.07, 0.052, 0.06]

Max Eigenvalue: 13.229

Consistency Index (CI): 0.747

Consistency Ratio (CR): 0.53

Random Index (RI): 1.41

## Engineer 22

Pairwise Comparison Matrix:  
[[1. 7. 7. 1. 1. 1. 9. 0.111]  
 [0.143 1. 7. 0.111 0.111 1. 0.143 0.111]  
 [0.143 0.143 1. 0.143 0.111 0.111 0.143 0.111]  
 [1. 9.001 6.998 1. 0.111 9. 9. 0.143]  
 [1. 9.001 9.001 9.001 1. 1. 9. 1. ]  
 [1. 1. 9.001 0.111 1. 1. 9. 0.333]  
 [0.111 6.998 6.998 0.111 0.111 0.111 1. 0.333]  
 [9.001 9.001 9.001 6.998 1. 3. 3. 1. ]]

Weights:  
[0.112, 0.026, 0.011, 0.163, 0.254, 0.093, 0.041, 0.299]

Max Eigenvalue: 11.517

Consistency Index (CI): 0.502

Consistency Ratio (CR): 0.356

Random Index (RI): 1.41

## Engineer 23

Pairwise Comparison Matrix:  
[[1. 1. 3. 3. 3. 1. 3. 3. ]  
 [1. 1. 1. 1. 1. 3. 3. 1. ]  
 [0.333 1. 1. 1. 1. 3. 3. 3. ]  
 [0.333 1. 1. 1. 1. 1. 1. 3. ]  
 [0.333 1. 1. 1. 1. 3. 3. 1. ]  
 [1. 0.333 0.333 1. 0.333 1. 1. 3. ]  
 [0.333 0.333 0.333 1. 0.333 1. 1. 1. ]  
 [0.333 1. 0.333 0.333 1. 0.333 1. 1. ]]

Weights:  
[0.231, 0.149, 0.147, 0.111, 0.132, 0.096, 0.063, 0.069]

Max Eigenvalue: 8.838

Consistency Index (CI): 0.12

Consistency Ratio (CR): 0.085

Random Index (RI): 1.41

## Engineer 24

Pairwise Comparison Matrix:  
[[1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 3. 3. ]  
 [1. 1. 1. 1. 1. 3. 3. 3. ]  
 [1. 1. 1. 1. 0.333 1. 1. 1. ]  
 [1. 1. 1. 0.333 0.333 1. 1. 1. ]  
 [1. 1. 1. 0.333 0.333 1. 1. 1. ]]

Weights:  
[0.12, 0.12, 0.12, 0.164, 0.189, 0.105, 0.092, 0.092]

Max Eigenvalue: 8.347

Consistency Index (CI): 0.05

Consistency Ratio (CR): 0.035

Random Index (RI): 1.41

## Engineer 25

Pairwise Comparison Matrix:  
[[1. 1. 1. 3. 3. 3. 3. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 3. 1. 3. ]  
 [0.333 1. 1. 1. 3. 3. 3. 1. ]  
 [0.333 1. 1. 0.333 1. 1. 1. 1. ]  
 [0.333 1. 0.333 0.333 1. 1. 1. 3. ]  
 [0.333 1. 1. 0.333 1. 1. 1. 1. ]  
 [1. 1. 0.333 1. 1. 0.333 1. 1. ]]

Weights:  
[0.21, 0.114, 0.157, 0.158, 0.086, 0.095, 0.086, 0.095]

Max Eigenvalue: 8.803

Consistency Index (CI): 0.115

Consistency Ratio (CR): 0.081

Random Index (RI): 1.41

## Engineer 26

Pairwise Comparison Matrix:  
[[1. 3. 3. 3. 3. 3. 3. 3. ]  
 [0.333 1. 3. 3. 5. 5. 5. 3. ]  
 [0.333 0.333 1. 5. 5. 5. 3. 5. ]  
 [0.333 0.333 0.2 1. 3. 3. 5. 5. ]  
 [0.333 0.2 0.2 0.333 1. 5. 5. 3. ]  
 [0.333 0.2 0.2 0.333 0.2 1. 3. 5. ]  
 [0.333 0.2 0.333 0.2 0.2 0.333 1. 5. ]  
 [0.333 0.333 0.2 0.2 0.333 0.2 0.2 1. ]]

Weights:  
[0.25, 0.226, 0.192, 0.112, 0.089, 0.056, 0.045, 0.03]

Max Eigenvalue: 9.991

Consistency Index (CI): 0.284

Consistency Ratio (CR): 0.202

Random Index (RI): 1.41

## Engineer 27

Pairwise Comparison Matrix:  
[[1. 1. 3. 3. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [0.333 1. 1. 3. 1. 1. 1. 1. ]  
 [0.333 1. 0.333 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 3. 1. 1. ]  
 [1. 1. 1. 1. 0.333 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]]

Weights:  
[0.171, 0.118, 0.127, 0.095, 0.144, 0.107, 0.118, 0.118]

Max Eigenvalue: 8.44

Consistency Index (CI): 0.063

Consistency Ratio (CR): 0.045

Random Index (RI): 1.41

## Engineer 28

Pairwise Comparison Matrix:  
[[1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]]

Weights:  
[0.125, 0.125, 0.125, 0.125, 0.125, 0.125, 0.125, 0.125]

Max Eigenvalue: 8.0

Consistency Index (CI): 0.0

Consistency Ratio (CR): 0.0

Random Index (RI): 1.41

## Engineer 29

Pairwise Comparison Matrix:  
[[1. 3. 3. 1. 3. 3. 1. 3. ]  
 [0.333 1. 1. 5. 3. 3. 3. 5. ]  
 [0.333 1. 1. 3. 3. 1. 3. 1. ]  
 [1. 0.2 0.333 1. 3. 3. 3. 3. ]  
 [0.333 0.333 0.333 0.333 1. 3. 3. 3. ]  
 [0.333 0.333 1. 0.333 0.333 1. 3. 3. ]  
 [1. 0.333 0.333 0.333 0.333 0.333 1. 3. ]  
 [0.333 0.2 1. 0.333 0.333 0.333 0.333 1. ]]

Weights:  
[0.222, 0.211, 0.148, 0.134, 0.093, 0.081, 0.066, 0.045]

Max Eigenvalue: 9.712

Consistency Index (CI): 0.245

Consistency Ratio (CR): 0.173

Random Index (RI): 1.41

## Engineer 30

Pairwise Comparison Matrix:  
[[1. 1. 3. 3. 0.143 3. 1. 0.143]  
 [1. 1. 0.143 1. 0.143 3. 0.143 0.143]  
 [0.333 6.998 1. 3. 1. 3. 1. 1. ]  
 [0.333 1. 0.333 1. 0.333 3. 1. 1. ]  
 [6.998 6.998 1. 3. 1. 0.143 3. 1. ]  
 [0.333 0.333 0.333 0.333 6.998 1. 0.143 1. ]  
 [1. 6.998 1. 1. 0.333 6.998 1. 0.143]  
 [6.998 6.998 1. 1. 1. 1. 6.998 1. ]]

Weights:  
[0.101, 0.054, 0.126, 0.075, 0.171, 0.127, 0.136, 0.209]

Max Eigenvalue: 13.134

Consistency Index (CI): 0.733

Consistency Ratio (CR): 0.52

Random Index (RI): 1.41

## Engineer 31

Pairwise Comparison Matrix:  
[[1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]]

Weights:  
[0.125, 0.125, 0.125, 0.125, 0.125, 0.125, 0.125, 0.125]

Max Eigenvalue: 8.0

Consistency Index (CI): 0.0

Consistency Ratio (CR): 0.0

Random Index (RI): 1.41

## Engineer 32

Pairwise Comparison Matrix:  
[[1. 0.111 0.111 0.143 0.111 0.143 0.111 0.111]  
 [9.001 1. 0.143 5. 0.111 0.143 0.143 0.111]  
 [9.001 6.998 1. 0.143 0.111 0.111 0.111 0.111]  
 [6.998 0.2 6.998 1. 0.333 0.333 0.333 7. ]  
 [9.001 9.001 9.001 3. 1. 7. 1. 0.111]  
 [6.998 6.998 9.001 3. 0.143 1. 0.111 0.111]  
 [9.001 6.998 9.001 3. 1. 9.001 1. 0.143]  
 [9.001 9.001 9.001 0.143 9.001 9.001 6.998 1. ]]

Weights:  
[0.008, 0.066, 0.042, 0.169, 0.159, 0.097, 0.163, 0.296]

Max Eigenvalue: 16.235

Consistency Index (CI): 1.176

Consistency Ratio (CR): 0.834

Random Index (RI): 1.41

## Engineer 33

Pairwise Comparison Matrix:  
[[1. 1. 1. 3. 1. 3. 1. 1. ]  
 [1. 1. 1. 3. 1. 1. 1. 1. ]  
 [1. 1. 1. 3. 1. 3. 1. 1. ]  
 [0.333 0.333 0.333 1. 0.333 1. 1. 0.111]  
 [1. 1. 1. 3. 1. 0.111 1. 1. ]  
 [0.333 1. 0.333 1. 9.001 1. 1. 1. ]  
 [1. 1. 1. 1. 1. 1. 1. 1. ]  
 [1. 1. 1. 9.001 1. 1. 1. 1. ]]

Weights:  
[0.152, 0.117, 0.152, 0.054, 0.101, 0.168, 0.105, 0.151]

Max Eigenvalue: 9.518

Consistency Index (CI): 0.217

Consistency Ratio (CR): 0.154

Random Index (RI): 1.41

## Engineer 34

Pairwise Comparison Matrix:  
[[1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]  
 [1. 1. 1. 1. 1. 1. 1. 1.]]

Weights:  
[0.125, 0.125, 0.125, 0.125, 0.125, 0.125, 0.125, 0.125]

Max Eigenvalue: 8.0

Consistency Index (CI): 0.0

Consistency Ratio (CR): 0.0

Random Index (RI): 1.41

## Engineer 35

Pairwise Comparison Matrix:  
[[1. 3. 1. 5. 1. 5. 1. 1. ]  
 [0.333 1. 1. 3. 1. 5. 1. 1. ]  
 [1. 1. 1. 3. 1. 3. 1. 1. ]  
 [0.2 0.333 0.333 1. 0.333 9. 0.333 0.333]  
 [1. 1. 1. 3. 1. 9. 9. 1. ]  
 [0.2 0.2 0.333 0.111 0.111 1. 0.2 0.2 ]  
 [1. 1. 1. 3. 0.111 5. 1. 1. ]  
 [1. 1. 1. 3. 1. 5. 1. 1. ]]

Weights:  
[0.175, 0.122, 0.13, 0.061, 0.243, 0.023, 0.111, 0.135]

Max Eigenvalue: 9.015

Consistency Index (CI): 0.145

Consistency Ratio (CR): 0.103

Random Index (RI): 1.41

## Aggregate Results

Aggregate Pairwise Comparison Matrix:  
[[1. 1.071 1.229 1.41 1.147 1.147 1.147 1.071]  
 [0.934 1. 1.071 1.071 1. 1.071 1.071 1. ]  
 [0.814 0.934 1. 1.229 1. 1.147 1.071 1.229]  
 [0.709 0.934 0.814 1. 1.147 1.147 1.229 1.229]  
 [0.872 1. 1. 0.872 1. 1.316 1.229 1.147]  
 [0.872 0.934 0.872 0.872 0.76 1. 1.071 1.229]  
 [0.872 0.934 0.934 0.814 0.814 0.934 1. 1.071]  
 [0.934 1. 0.814 0.814 0.872 0.814 0.934 1. ]]

Aggregate Weights:  
[0.143, 0.128, 0.13, 0.126, 0.13, 0.117, 0.114, 0.112]

Aggregate Max Eigenvalue: 8.036

Aggregate Consistency Index (CI): 0.005

Aggregate Consistency Ratio (CR): 0.004

Aggregate Random Index (RI): 1.41