

# Design Thinking Project Ideas For Engineering Students

Here are some unique design thinking project ideas for engineering students:

## Environmental Engineering

1. Design a vertical garden for urban homes.
2. Make a water filter using natural items.
3. Create a solar-powered system for irrigation.
4. Build a rainwater harvesting system for schools.
5. Design biodegradable disposable cutlery.
6. Make a tool to check air quality.
7. Create a green roof for shopping areas.
8. Develop a smart bin to sort trash.
9. Build a wind turbine for small areas.
10. Design eco-friendly packaging.
11. Make a machine to recycle plastic bottles.
12. Create a device to cut water use at home.
13. Design a nice-looking solar panel.
14. Build a smart garden that waters plants.
15. Make a home composting system.

## Mechanical Engineering

16. Create a bike with built-in storage.
17. Design a robotic arm for factories.
18. Make a small portable fridge for the outdoors.
19. Create a tool to change car tyres easily.
20. Design a device to help disabled people walk.
21. Build a wind turbine for homes.
22. Make a machine to turn old paper into new.
23. Create a solar-powered lawn mower.
24. Design a smart bike lock with GPS.
25. Make a device to clean solar panels.
26. Build a robot to help care for the elderly.
27. Design a greenhouse with automatic controls.
28. Make a machine to recycle glass bottles.
29. Create a tool to measure soil moisture.
30. Design an easy-to-use compost maker.

## Electrical Engineering

31. Make a smart lightbulb that changes colours.
32. Design a solar-powered backpack.
33. Build a portable charger for many devices.
34. Create a smart plug to control home appliances.
35. Make a device to track home energy use.

36. Design a wireless charging pad for phones.
37. Create an intelligent mirror with excellent features.
38. Build a motion-sensing light for safety.
39. Make a device to detect water leaks.
40. Create a smart thermostat for saving energy.
41. Design a tool to monitor indoor air quality.
42. Build a solar-powered fan for eco-cooling.
43. Create an intelligent shower to save water.
44. Make a device to monitor home security.
45. Design an intelligent alarm clock with custom features.

## Civil Engineering

46. Design a modular home for disaster relief.
47. Create a bridge for walkers and cyclists.
48. Build a wall to stop soil erosion.
49. Make a system to collect and store rainwater.
50. Create a tool to test concrete strength.
51. Design a playground for kids with disabilities.
52. Build a road that absorbs water to cut flooding.
53. Create a parking lot with charging stations.
54. Make a device to check building stability.
55. Design an eco-friendly building material.
56. Create a tool to build green homes.
57. Build a system to track traffic flow.
58. Make a greenhouse that collects rainwater.
59. Create a tool to test soil quality.
60. Design a modular classroom for rural areas.

## Chemical Engineering

61. Create a biodegradable laundry soap.
62. Design a system to clean dirty water.
63. Build a machine to turn food waste into fertiliser.
64. Make a way to get water from the air.
65. Create a device to check water cleanliness.
66. Design a process to make fuel from algae.
67. Make a plant-based plastic alternative.
68. Build a system to reuse heat.
69. Create a method to cut industrial waste.
70. Design a filter to clean exhaust fumes.
71. Make a tool to test outdoor air quality.
72. Create a sustainable way to make dyes.
73. Build a system to recycle cooking oil.
74. Develop a method to preserve food longer.
75. Design a tool to monitor chemical reactions.

## Aerospace Engineering

76. Create a small drone for farm use.
77. Design a lightweight satellite for research.
78. Build a model rocket that flies high.
79. Make a system to track weather from space.
80. Create a tool to track drone flights.
81. Design a more fuel-efficient jet engine.
82. Make a model of a supersonic aircraft.
83. Create a system to avoid obstacles.
84. Build a tool to assemble small planes.
85. Design a parachute for safe landings.
86. Make a tool to check wind speed and direction.
87. Create a system to track planes in flight.
88. Build a model of a space rover.
89. Design a tool to test wind resistance.
90. Create a system to control drones remotely.

## Biomedical Engineering

91. Create a prosthetic limb with cool features.
92. Design a tool to track heart rate.
93. Build a machine to run simple lab tests.
94. Create a system to track physical activity.
95. Make a device to help with physical therapy.
96. Design a light, foldable wheelchair.
97. Create a tool to help in surgery.
98. Build a system to give medications on time.
99. Make a tool to check blood pressure.
100. Design a discreet, effective hearing aid.
101. Create a device to measure oxygen in blood.
102. Build a system to track sleep patterns.
103. Make a machine to help with rehabilitation.
104. Create a tool to find early signs of disease.
105. Design a device to help the visually impaired.

## Computer Engineering

106. Make a language-learning app.
107. Design a voice-activated smart home system.
108. Build a job search website.
109. Create a system to manage money.
110. Make a tool to translate languages.
111. Design a mobile game for learning.
112. Create a home security system.
113. Build a site to connect people with similar interests.
114. Make a tool to edit photos and videos.
115. Design a smartwatch with unique features.
116. Create a device to help with studying.
117. Build a system to manage home gadgets.

118. Make a site to share personal stories.
119. Create a tool to organise digital files.
120. Design a tool to help people stay healthy.

### Extra Ideas for Inspiration

121. Build a system to grow plants in space.
122. Create a tool for sustainable fashion.
123. Design a device to help with speech issues.
124. Make a system to track animals in forests.
125. Create a tool to help people with hearing loss.