

Hydrogen Fuel Cell

Aim	Methodology	Results
<ul style="list-style-type: none">• To develop a self-contained fuel cell that stores its own hydrogen, eliminating separate pressurized tanks and minimizing efficiency loss caused by pressure drops.	<ul style="list-style-type: none">• Designed all components in SolidWorks, leveraging its user-friendly interface for part creation and assembly.• Cut and assembled acrylic plates, sealed with silicone glue, and added iron brackets for reinforcement.	<ul style="list-style-type: none">• A fully functional conceptual design was fabricated and tested, confirming the feasibility of an integrated hydrogen storage approach while highlighting the best electrode–electrolyte combinations for improved cell efficiency.

