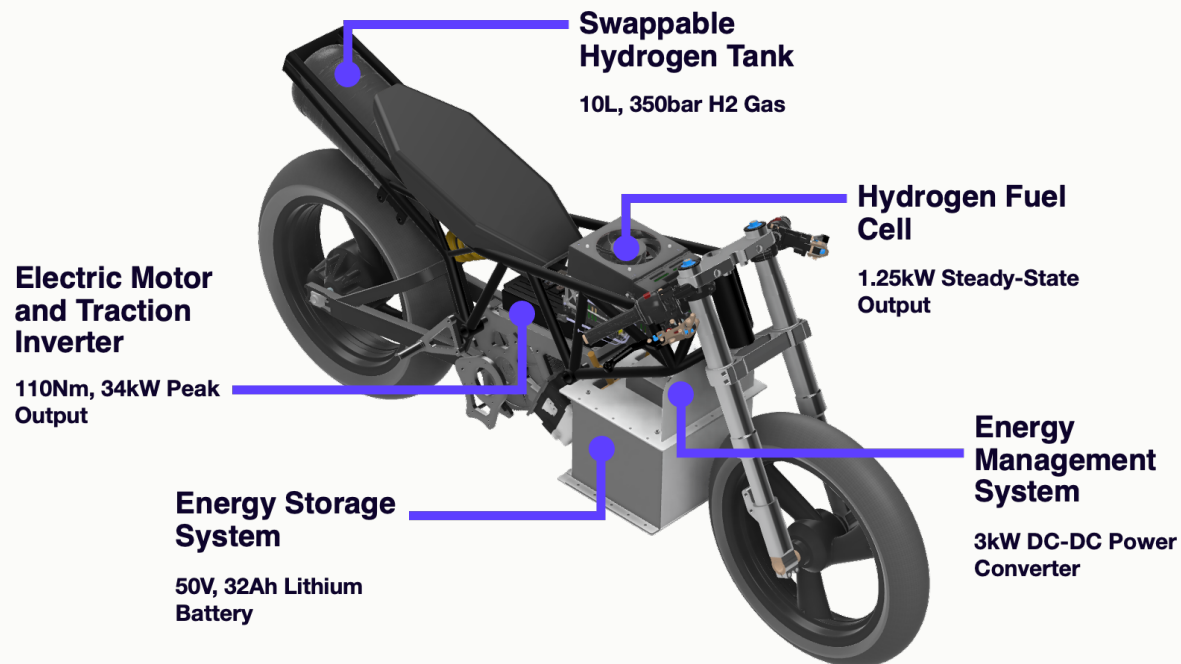


Open Source **Hydrogen** Vehicle Platform for Research and Education

Summary of Specifications, Version 1.0 Platform



Platform-Level Specifications

Top Speed <i>*(est.)</i>	140 mph
Range (quoted at 45mph) <i>*(est.)</i>	225 miles
Unladen Vehicle Mass	170 kgs
Vehicle Length	83.7 in
Vehicle Width	29.29 in

Drivetrain System

Peak Torque Output	110 Nm
Peak / Continuous Motor Power	45 / 21 kW
Motor Speed @ Peak Power	5300 RPM
Peak Motor RPM	7500 RPM
Final Drive Ratio	~3.2:1

Hydrogen System

Peak Power Output	1.25 kW
H2 Storage Volume and Pressure	10 L @ 350 bar

Lithium-Ion Battery System

Energy Storage Capacity	1.6 kWh
System Voltage	50V
Battery Peak Power Output	17.5 kW

Energy Management System

Converter Power Limit	3 kW
Current Control	0-50 A
Voltage Control	0-60 V
Processor	ARM Cortex-M7

**(est.)* – indicates numbers are based on initial simulation data, hardware verification, and testing are still in progress.