



UniChamps Solar Car Team (University of South Africa)

UniSolar

After numerous attempts to complete their solar car, UniChamps Solar Car Team are finally joining the world of solar challenges.

The team started working on their car in 2021 and after months of back and forth in putting together a fully functioning solar car, the team finally reached a breakthrough and are currently improving the car - fabricating components and improving the chassis and aerodynamics of the car - which will be competing in the Ilanga Cup in July and subsequently in the Sasol Solar Challenge in September.

The 20-member team aged 20 to 30, decided to participate in solar challenges in order to contribute towards efficient and sustainable transportation.

They design and manufacture all parts of the car, including the chassis, which is made of round mild steel pipes.

Their solar car, UniSolar, approximately weighs 400 kg, with estimated speed of 70 km per hour. The car design was inspired by both the Lamborghini Countach LP500 and DeLorean DMC because of their mid-engine, flat wide body to accommodate 5m square of solar cells and protruding air vents.