

Bloodhound Guest Lecture

Date: 27/11/2019

- The guest lecturer got involved in the Bloodhound project in 2007
- The guest lecturer is an aerodynamasist
- The goal of the project is to create a car capable of reaching 1000 miles per hour
- The driver of the vehicle is named Andy Green who is an RAF pilot
- They have plans to attach a rocket to the vehicle in hopes of increasing the speed
- The vehicle is currently using a jet engine that was provided by Rolls Royce
- The project used a CFD process to simulate air resistance in order to test design ideas
- Then a 1/10th scale model was created in order to test the accuracy of the CFD process used
- It took them 10 years to get from concept to design
- They spent 18 months building the car and the guest lecturer was the first person to sit in the vehicle
- Once the vehicle was finished some low speed testing was done in October of 2017
- The brakes had to be applied once the vehicle has slowed down to 150 miles per hour
- The high speed testing was done on a 12 mile track in Hakskeen Pan in South Africa
- We were shown a video of the vehicle being tested
- The vehicle is currently able to reach a speed of 628 miles per hour
- We were then shown a graph showing how well the simulation of pressures on the vehicle matched with reality.