

# DESIGN A CANTILEVER CAR PORCH ROOF FOR TWO CARS

Prepared by: Wong Wai Chung

## ABSTRACT

---

From the title of the project given to me, I am supposed to design a cantilever car porch roof for two cars. The design should be of reinforced concrete. The purpose of this project is for the roof should be able to give should be provided for the rainwater to flow down. The design should look as pleasant as possible as it is an external part of building. The reinforced concrete car porch is designed as a cantilever structure which form part of a reinforced concrete multistory building with columns inside to support.

**What is a concrete beam?** In terms of civil engineering, a beam is a long piece of concrete that is horizontal and supported at one end or both ends that carries the weight of part of building or some other structure.

**What is a reinforced concrete?** A reinforced concrete with metal bars or wires embedded in it to give greater strength to structures and buildings.

**What is a cantilever beam?** A cantilever beam is beam that is fixed at one end while the other end is freely. They carry loads that vary from **UDL**, Uniformly Distributed Loads or fixed loads or even both sometimes. In the world there are many engineering structures that are supported by cantilever beams. Examples of such beams used are:- car porch roof, corridors and others.