

# Life Saving Bumper

An innovation from



# Agenda

- History Motivation
- Problem Statement
- Protype design
- Architecture of model
- About the processor
- Solution proposed
- Design of device
- Future Vision



# Motivation behind project

- Cat Catcher in 1930s
- Significantly reduced death rate
- But one problem



### Car Catcher - OLD

Significantly reduced death rate

Say no to death





# Problem Statement

To develop a car safety device that can save life of pedestrian in real-time

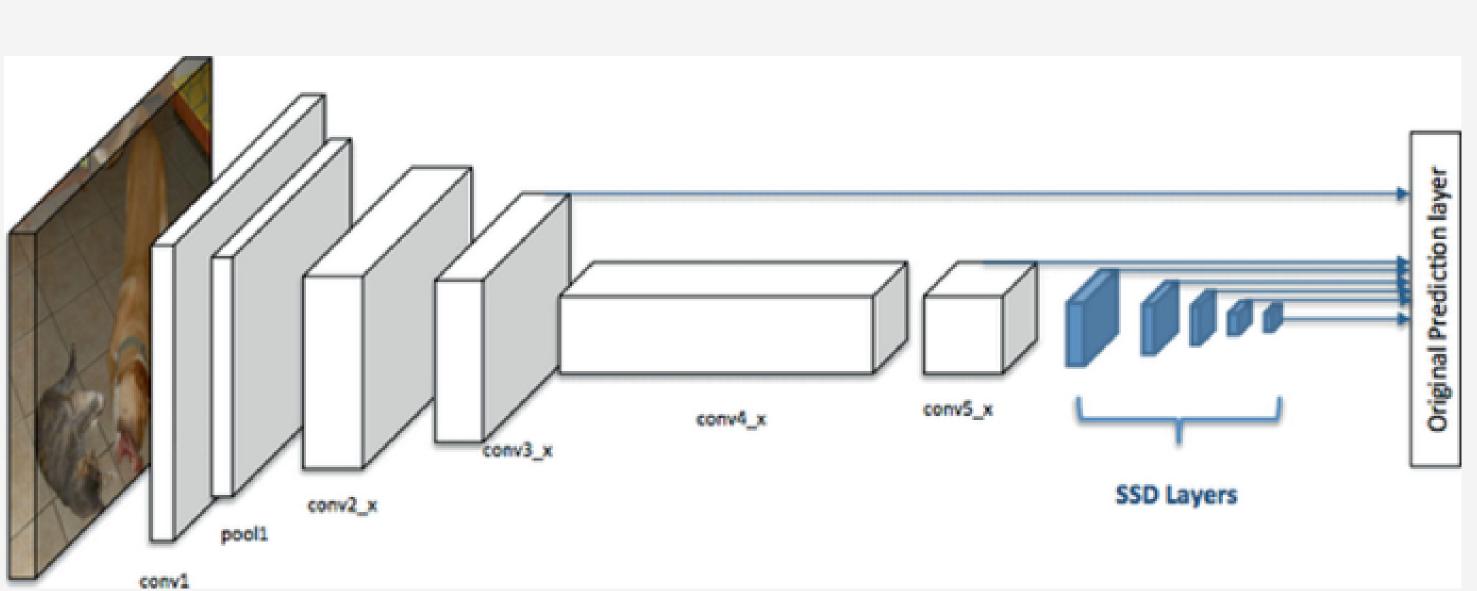


# Prototype Design

- Jetson Nano
- Web Camera
- Motor Driver L298n
- Car Chasis & DC Motors
- Buzzer module



# Architecture of MobileNetSD





## Micro Processor





#### Why Jetson nano.

- GPU Computation
- General Purpose PINs
- 3.0 USB
- Ethernet access
- Linux based (Open source)

### How to solve



#### **Computer Vision**

To train and integrate multiple optimal models.

#### **Industrial Internet of Things**

To incorporate ultra-low latency industrial graded devices.

#### **Anti-shock absorbent**

To design a perfect oriented car-safety device.

Device should possess

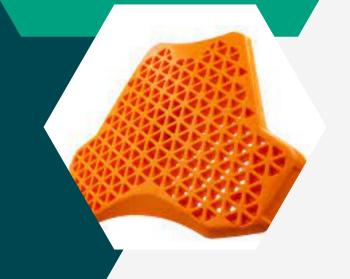
- Good Shock absorber
- Flexibility
- Reusability
- Less weight
- Duralility





### Computing brain Jetson AGX Orin

# Future Vision



#### Device substrate

D30 material hello@reallygreatsite.com

Integerete with Cloud IoT Cloud platforms