Computer Science
Senior Design Laboratory
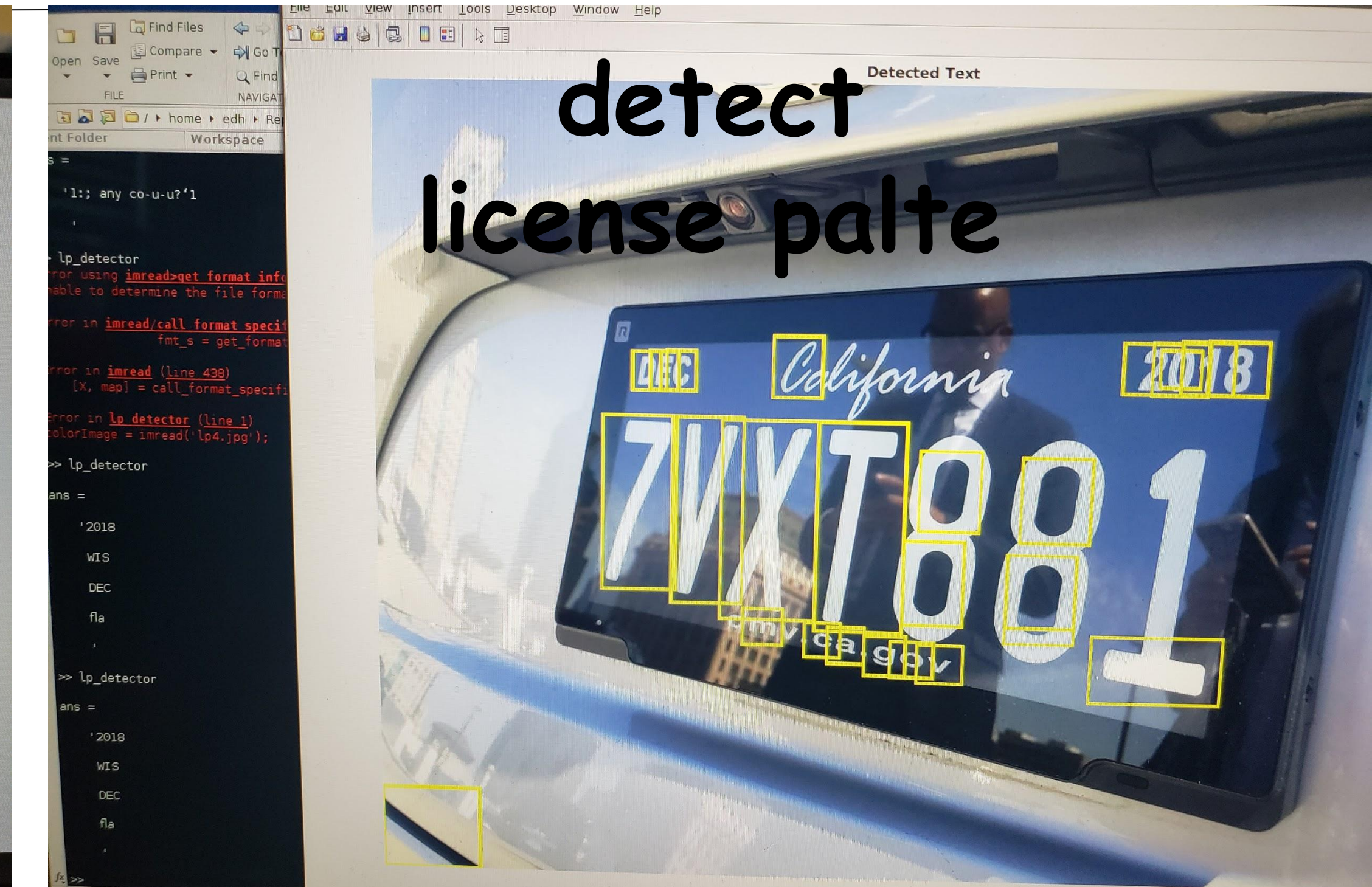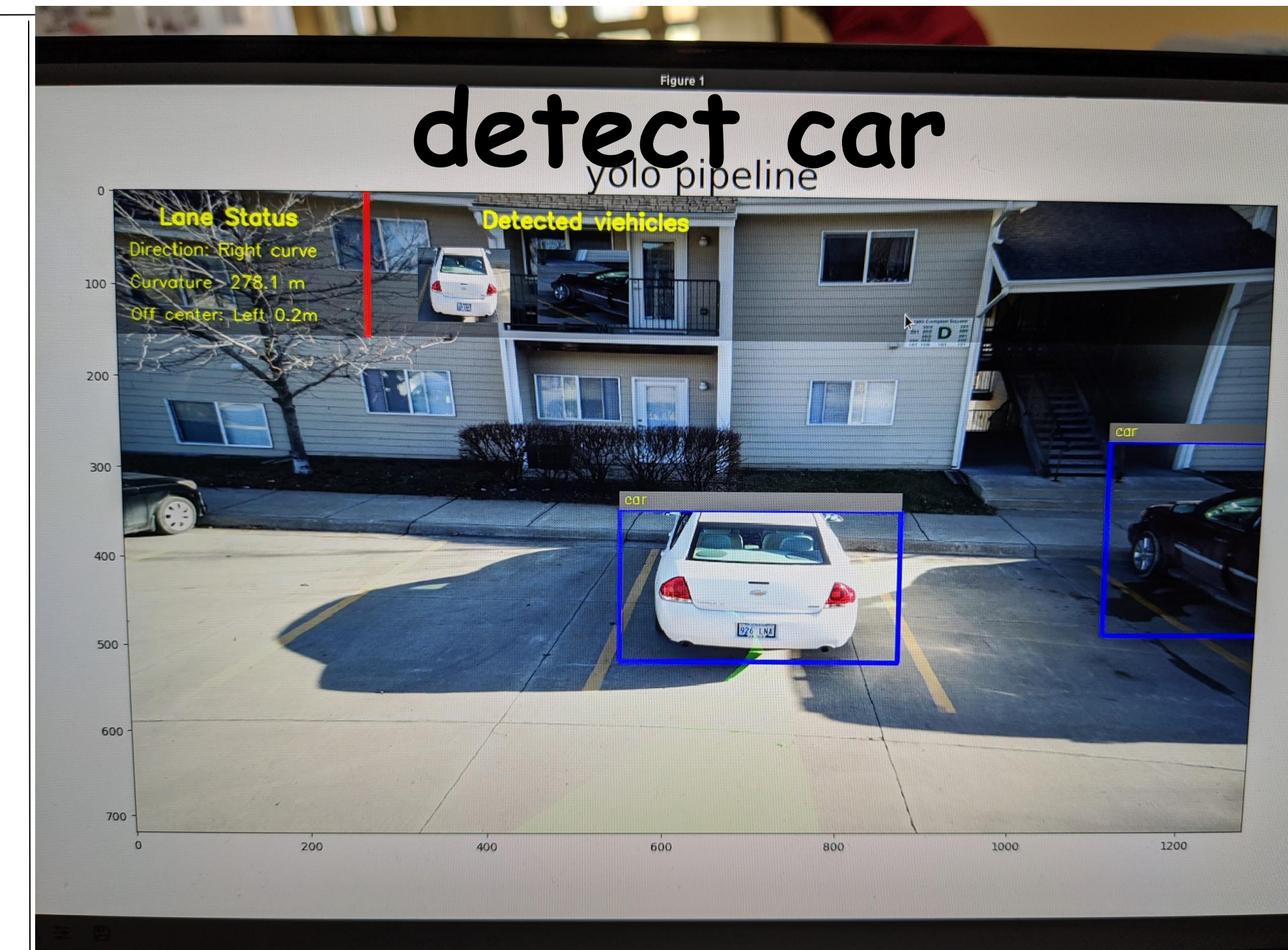
University of Kansas

Drone Parking Lot Management System (Team No. 18)
Fan Ye (CS), Guanyu Li (CS), Hanwen Jia (CS), Hidalgo Danie (CS), Xingjian Ding (CS)

Description & Purpose

• Our software can automatically analyze and identify vehicle information by transmitting images through drones and process them accordingly.

• The project was inspired by everyday life. Conducive to drones to deal with complex traffic environments and unexpected situations, saving manpower and improving efficiency.

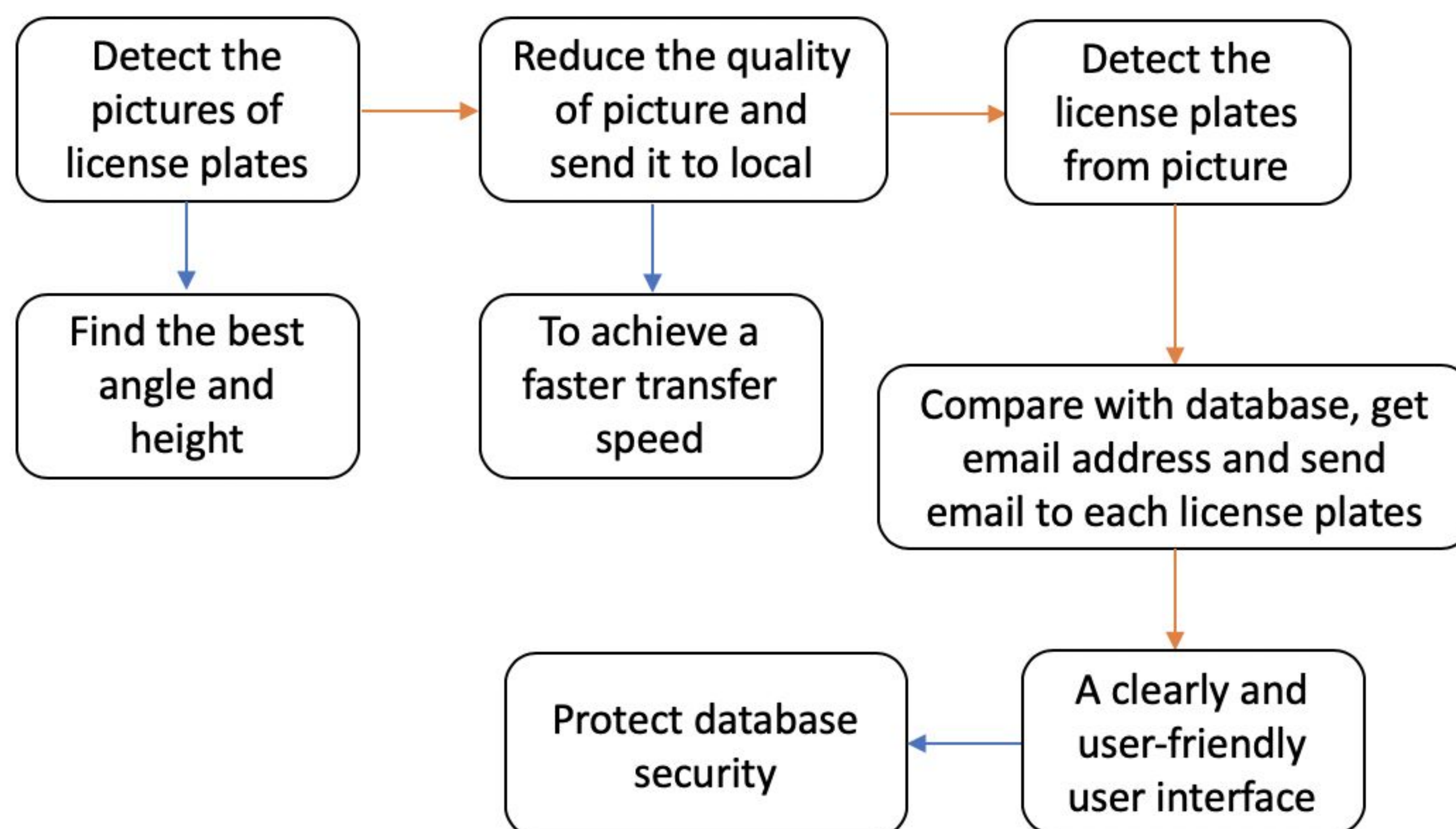• The end result of this system will be a combination with the drone and software.

detect car

detect license palte

auto send email

the drone we use

Design

Detect the pictures of license plates → Reduce the quality of picture and send it to local → Detect the license plates from picture

Detect the pictures of license plates → Find the best angle and height

Reduce the quality of picture and send it to local → To achieve a faster transfer speed

Detect the license plates from picture → Compare with database, get email address and send email to each license plates → A clearly and user-friendly user interface → Protect database security

Ethical & Intellectual Property Issues

● Our application is majorly based on the DJL drone and accessories apps.

● auto send email -- import a module call yagamil
https://github.com/kootenpv/yagmail#install