

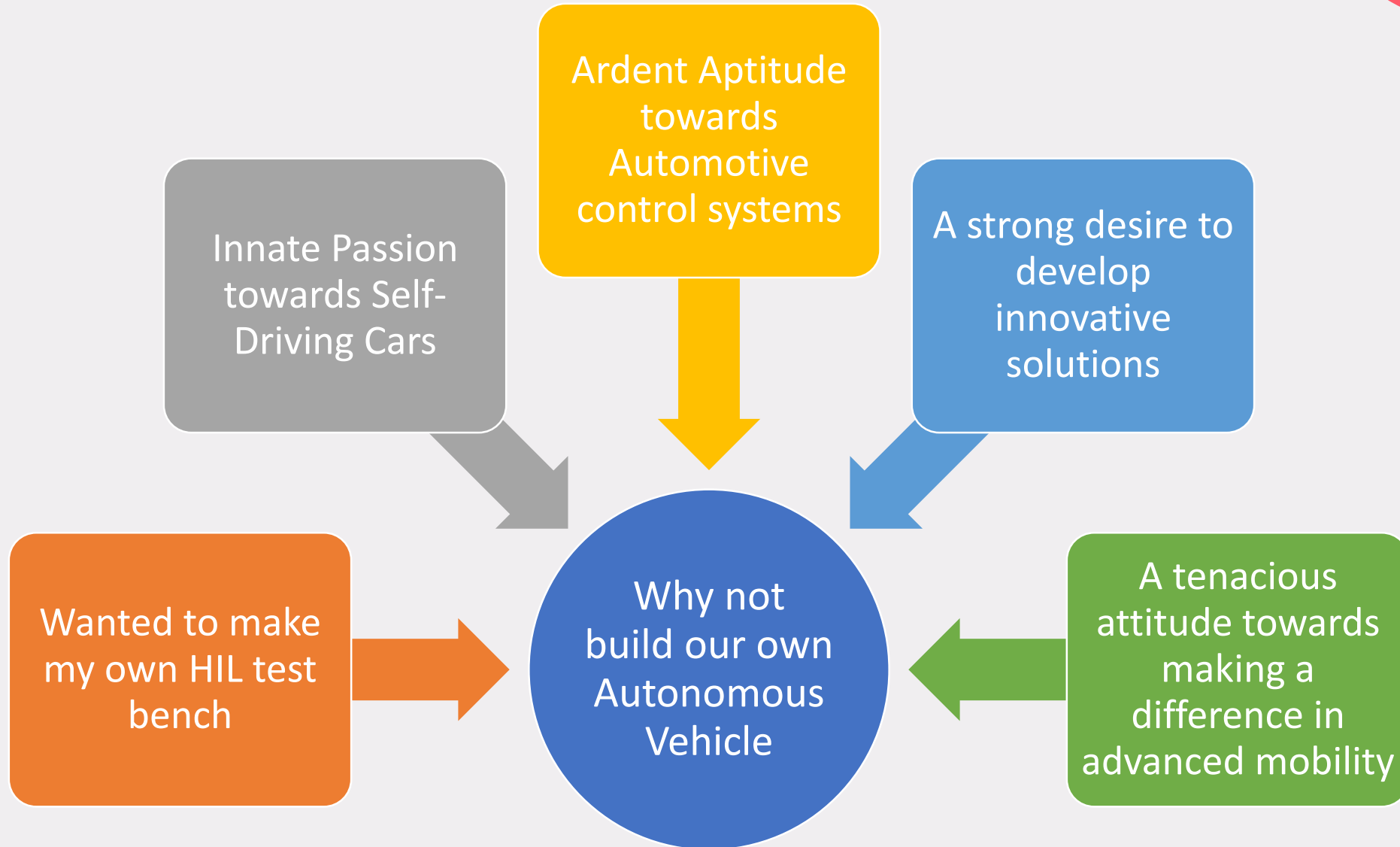


ADAS and Active Safety Feature integration:

Project by:

Fauzan Dhongre

Motivation behind the self-implementation Of this Project





Skills Needed to materialize the project idea

Python

- For programming the Algorithms

Object Oriented Programming

- Modular Algorithm Development

Embedded C

- For Programming the Arduino

Image Processing

- For Lane detection

Deep Learning

- Object detection

TCP Socket Server

- Distributed Wireless Computing

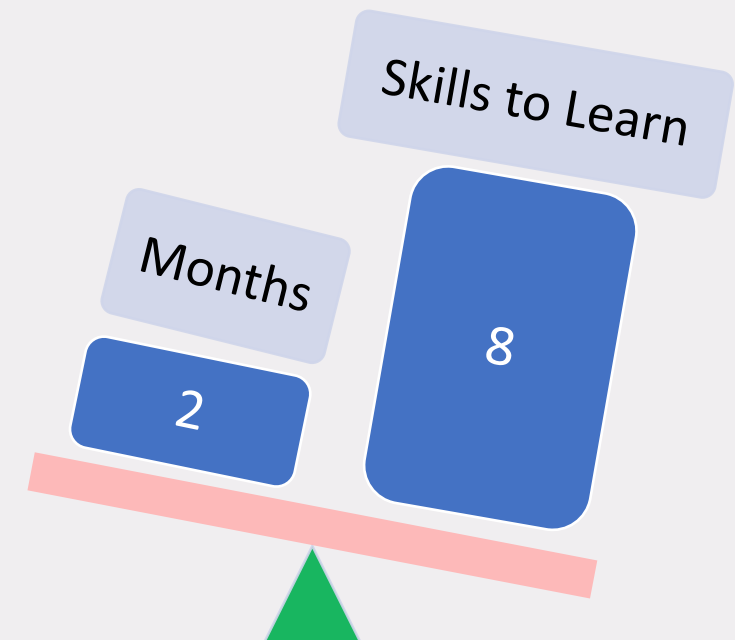
Bluetooth Serial Comm.

- Communicate with Arduino Wirelessly

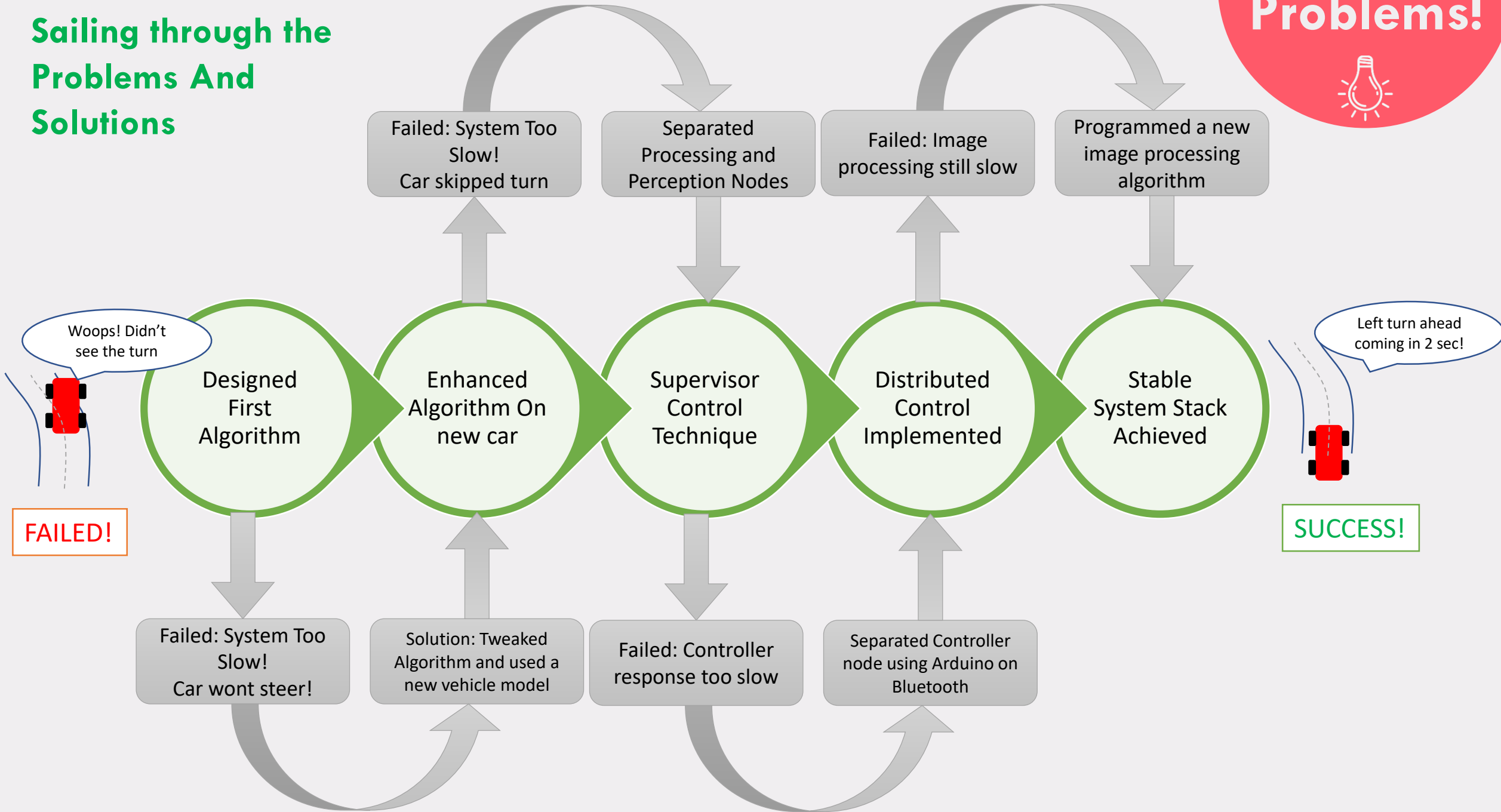
Electronics

- Integration of components

Too much to learn in too little time!

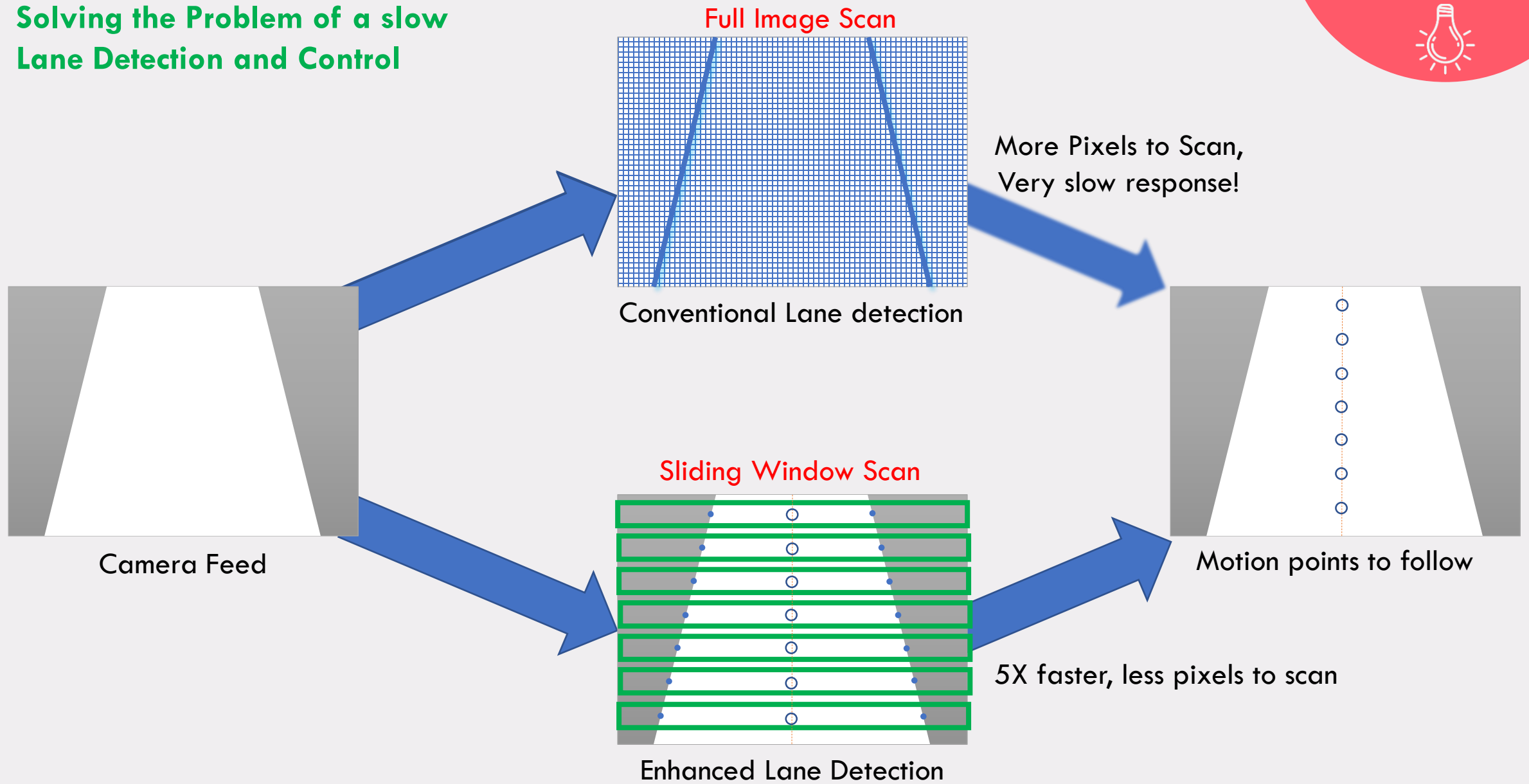


Sailing through the Problems And Solutions



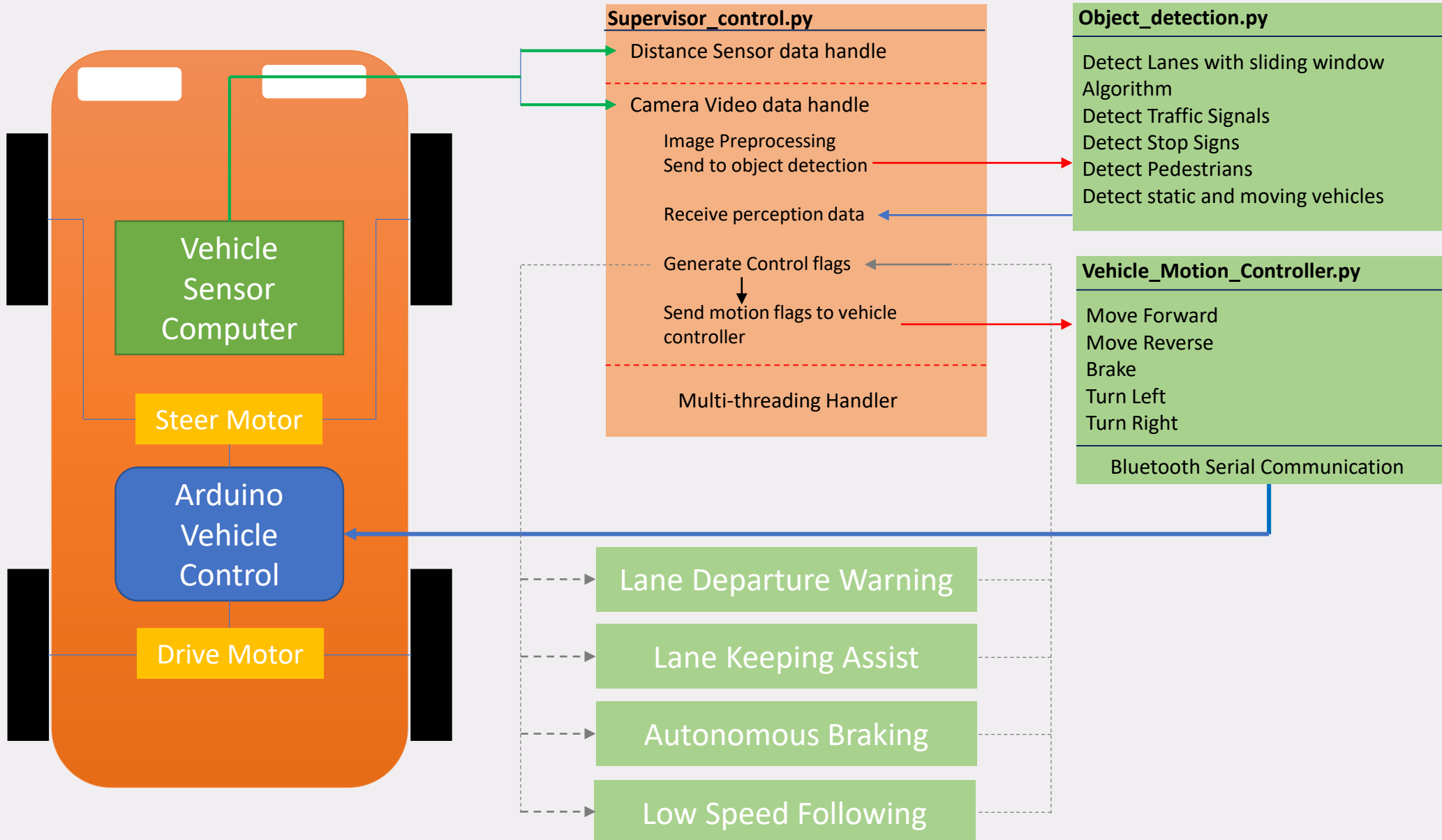


Solving the Problem of a slow Lane Detection and Control





The final established control flow after crossing all Failures





Key Achievements

1

No professional help/supervision

Independent

2

Learnt 8 new skills in 2 months!

Rapid Learner

3

Challenging problems due to multiple constraints

Problem Solver

4

Finished while handling full course load

Multi-Tasker

5

Not a part of coursework

Self-Motivated

About Me



Who I am..



Multi-Tasker

Result Driven

Inquisitive Problem-Solver

Self- Motivated

Fast-Paced Learner

Diligent Team Player

Masters in Mechanical
Engineering

Love Photography &
Travelling

Thank You



THANK YOU!

Click this to Catch the project in action: [YouTube Video](#)

Project Source Code: [GitHub](#)

Contact: fdhongre@mtu.edu
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“Things work out best for those who make the best of how things work out”

-John Wooden