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HCVA TRADE MEMBERS INSIGHT DAY A HISTORIC FUTURE

OCTOBER 2024



A Historic Future
HCVA Trade Members' Insight Day 2024

AVOIDING THE ELECTRONICS CLIFF-EDGE OF DISASTER



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Owner of RH Engineering



**AS OLD ELECTRONICS
FAIL HOW CAN WE KEEP
OLDER CARS RUNNING?**

**WILL CARS OF THE '90S
HAVE TO BE SCRAPPED
WHEN THE CIRCUITS FAIL?**



WHAT COULD GO WRONG...

- Electronic ignition
- Bulb failure warning & other small units
- Engine management ECU
- Gearbox ECU
- ABS
- Body control modules
- Immobilisers

E.g,

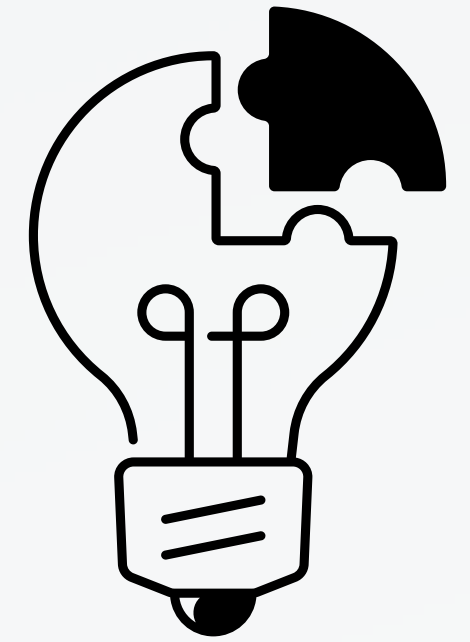
XJS – ignition vacuum control unit

P38 – bcm





Understand and repair electronic circuits



This requires training on old electronic components and circuits.

Understand how to analyse and select modern equivalent components and how to make small modifications to circuits to use modern components.

ADAPT AND OVERCOME

- Understand and modify systems to remove features that don't work any more, including immobiliser and out dated emissions systems etc.
- Emissions and the law! Don't make the emissions worse!
- How to replace with modern equivalents – cats, sensors, actuators etc.
- Modifying circuits – circuit analysis, knowledge sources, tools and skills
- Modifying software – EPROMS to Flash.





Alternative generic off-the-shelf systems

New engine management, such as Emerald or Motec

New auto gearbox controllers, such as Compushift

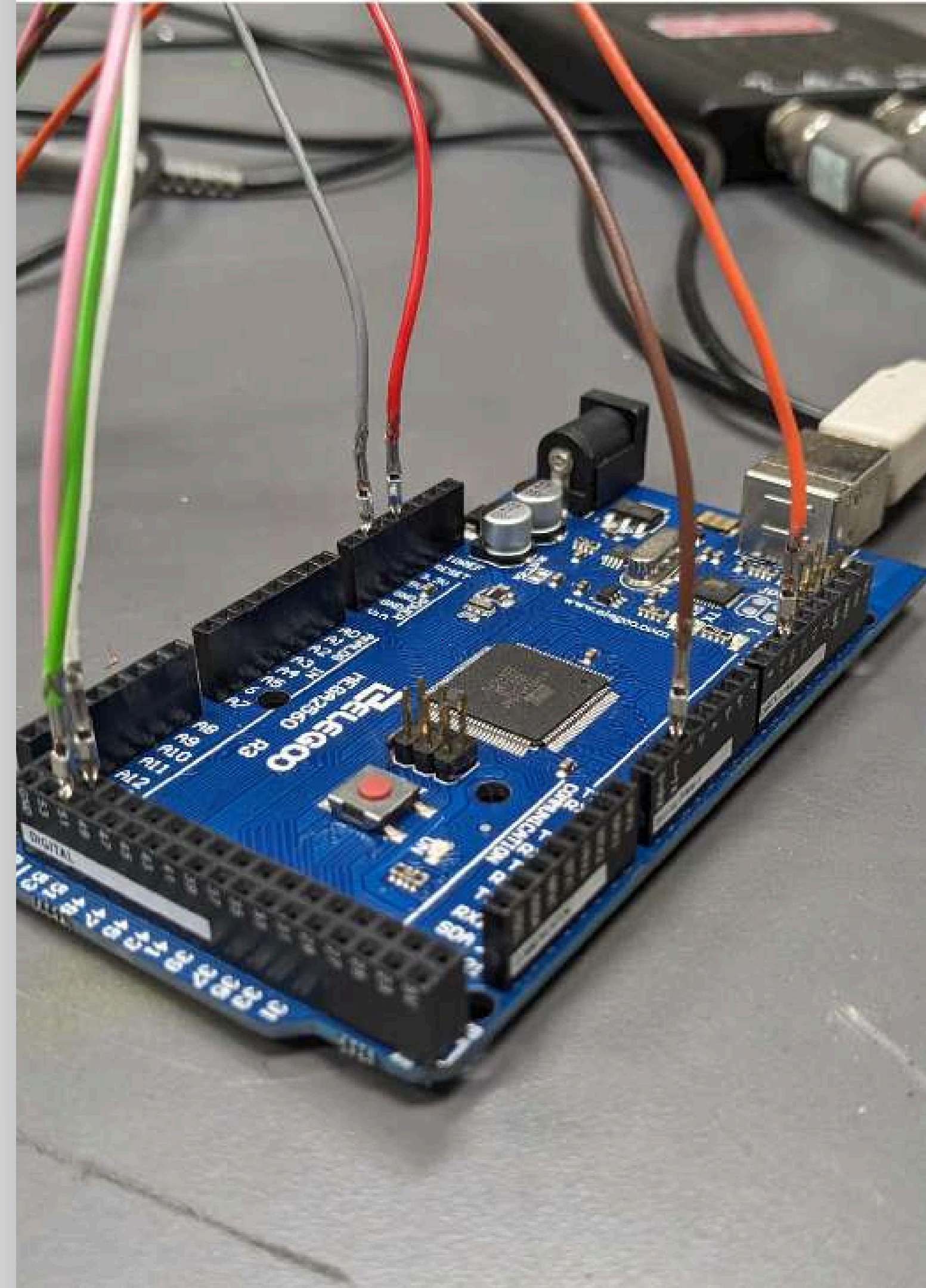
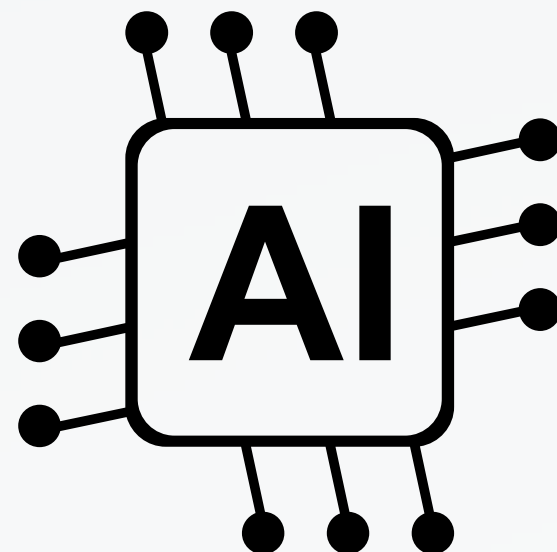
New body controllers, such as New Eagle



ALL NEW?

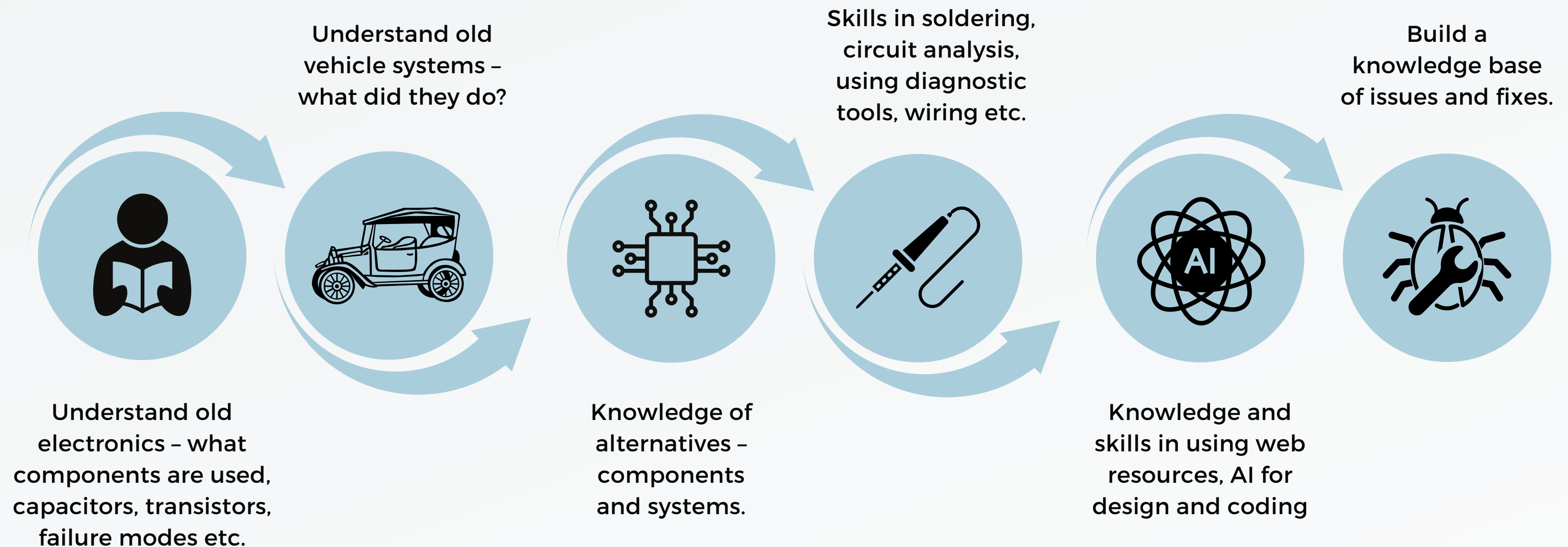
Understand and design new systems using modern electronics, including controllers such as Pi and Arduino.

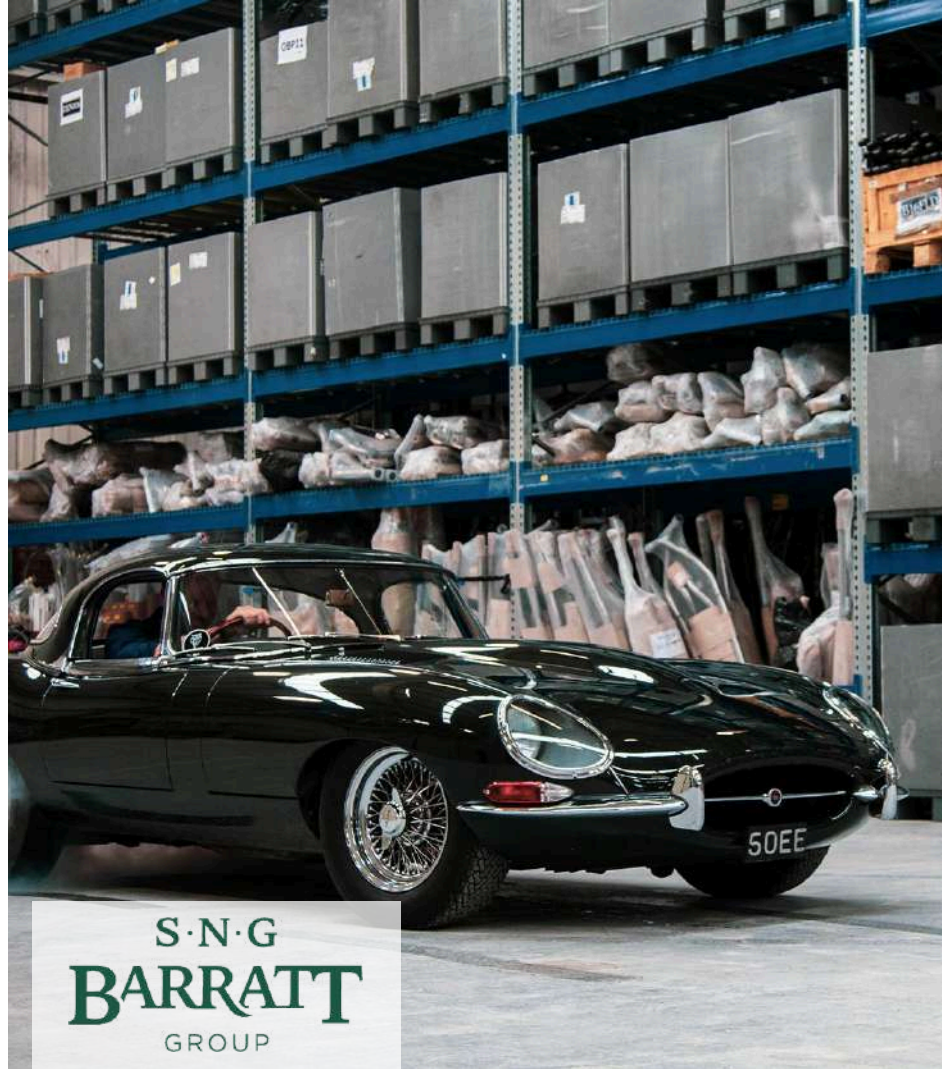
Requires some understanding but coding can be done with AI now.



HOW DO WE TURN THE TIDE?

Training - to inspire and educate.



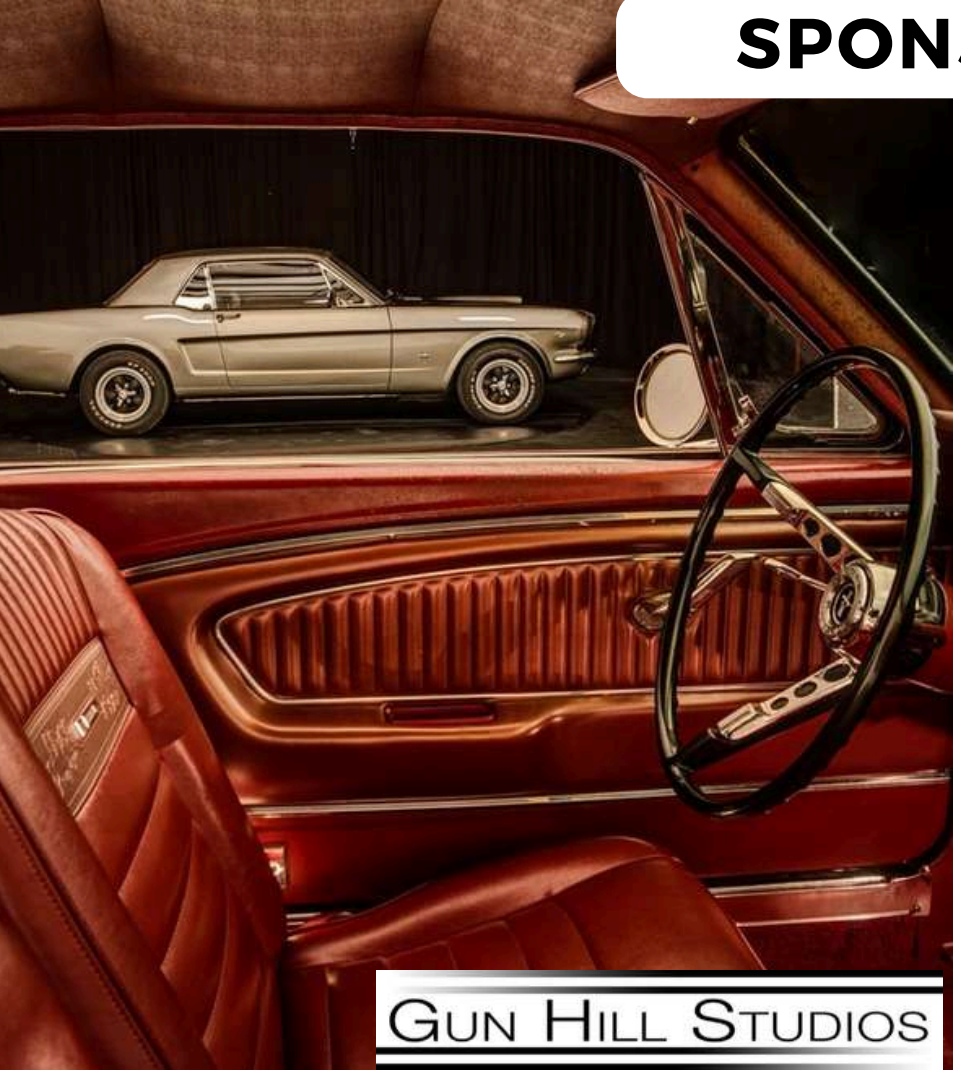


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