

Evolution of Mechatronics

HISTORY DEVELOPMENT

Since the beginnings of autonomous vehicles during the 1920s to the 1940s autonomous vehicles have rapidly improved throughout the years. The first thoughts of this advancement started with radio controlled cars and the first prototypes were created during the mid - twentieth century that were operated by electronic devices embedded in roadways. Now we are able to see many different companies such as Tesla and Ford starting to create even more advanced examples of autonomous vehicles, these are now able to understand the surroundings they are placed in via using sophisticated sensors and cameras. Because of these swift advancements the market for autonomous vehicles has been growing in demand more recently and more and more investors, researchers and companies are looking into this field of autonomous vehicles.

TYPES OF JOBS - Impact on Society

A Front-End Engineer in the automotive industry focuses on designing and developing the user interface (UI) and user experience (UX) for automotive software applications, such as infotainment systems, navigation, and vehicle control interfaces. They work closely with designers, UX specialists, and back-end developers to create intuitive and visually appealing interfaces that enhance the driver and passenger experience.

HOW DOES IT INFLUENCE INDUSTRIES AND TECHNOLOGY? - Impact on Society

Autonomous vehicles influences industries and technology by reducing demand of transportation, cyber security and potential for long runs. There are already a few of automatic vehicles such as Tesla and BMW that can functionally drive by itself only on highways and motorways, meaning that advance tech is limited. For transportation, truck drivers with potential of job loss and safety. These however is only the downsides of autonomous vehicles. The advantages of these vehicles can be safer when efficient, less traffic and greenhouse gas, fuel, and carbon dioxide which greatly reduces global warming. One of the high potential threats is cybersecurity. It's because the autonomous vehicle run on technology, and can be hacked.