- Give an example of an autonomous device /system and discuss both the benefits it offers as well as the risks associated with its use

Autonomous cars can reduce the amount of time wasted by drivers during their commutes, allowing them to relinquish control of the vehicle to an artificial intelligence algorithm. However this also opens them up to legal issues, emotional damages, and injuries among other things which potentially would not have occurred if the driver were to not relinquish said control.

- Do the same for an example of pervasive technology

Electric cars allow people to commute to their destinations with fewer emissions than conventional internal combustion engine vehicles, however this comes at the cost of safety as if an electric vehicle gets into an accident the driver and all passengers must attempt to exit the vehicle as fast as they can because lithium batteries have a risk of explosion after being damaged.

- Can humans be trusted to make good decisions with regard to turning control over to robots?

Ultimately humans have a high degree of laziness, and thus regardless of whether the robots can be trusted or not they will likely turn over control to the robots even if the machines are not fully-equipped for the task at hand or have other risk factors. Therefore, we should not sell AI's which are not yet fit for the task at hand.

- What would a system of checks look like which ensures humans are properly mitigating risk?

The system would have to guarantee that the human is not under the influence of any substances, lacking sleep, or under any other mental disablement. Additionally they would have to make decisions related to current events which would verify their ability to make decisions which mitigate risk